Front Cover

OKIDATA

Service Guide

OKIPAGE 8c / OKIPAGE 8cn
LED PAGE COLOR PRINTER PRODUCTS

Adobe Acrobat printable reference copy
of the OKIDATA Service Training Manual.
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Table of Contents	Page

Service Guide - OKIPAGE 8c

0 Introduction

Preface 2

1 Specifications

1.1 Basic System Configuration 3
1.2 Printer Specifications 4
1.3 Option Specifications 5
1.4 Basic Specifications 6

2 Operation

2. Operation 7
2.1 Main Control Board (PCR PCB) 8
2.2 Engine Control Board (PX4 PCB) 9
2.3 Power/Board 10
2.4 Mechanical Processes 11
....2.4.1 Electrophotographic processing mechanism 12
....2.4.2 Paper running process 13
2.5 Sensors 14
....2.5.1 Paper Related Sensors 15
....2.5.2 Other sensors 16
2.6 Correction of Color Deviation 17
2.7 Transfer Control according to Environmental Changes 18
2.8 Form Jam Detection 19
2.9 Cover Opening 20
2.10 Toner Lower Detection 21
2.11 Page Size Detection 22
2.12 Power-on Processing 23

3 Disassembly

3.0 Parts Replacement 24
3.1 Precautions for Parts Replacement 25
3.2 Parts Layout 26
3.3 How to Change Parts 27
....3.3.1 Cover Assy Rear 28
....3.3.2 Motor-Fan (80-25) 29
....3.3.3 Paper Eject Assy 30
....3.3.4 Cover Assy Stacker, Guide Eject FD Assy 31
....3.3.5 Upper Frame Assy 32
....3.3.6 Plate Support Assemblies 33
....3.3.7 Limiter 2way (L), (R) / Plate Guide (L), (R) 34
....3.3.8 Cover 35
....3.3.9 PCR PCB Assy 36
....3.3.10 Motor Fan 37
....3.3.11 PXF PCB/PX4 PCB 38
....3.3.12 Gear Heat Assy 39

Table of Contents	Page
....3.3.13 Main Motor (A), (B) Assy	40
....3.3.14 Gear One-way (Z30)	41
....3.3.15 Motor Assy Belt	42
....3.3.16 Power Supply Unit, Holder Inlet, Sheet Insulation	43
....3.3.17 Sensor Assy Box Toner	44
....3.3.18 Square-shaped Connector	45
....3.3.19 Motor - Pulse (ID)	46
....3.3.20 One-way Gears	47
....3.3.21 Feeder Unit Front	48
....3.3.22 Manual Feed Hopper Assy	49
....3.3.23 Guide Paper Input Assy	50
....3.3.24 Two Lever Input Sensors, Lever 2nd Feed Sensor	51
....3.3.25 Roller Registration, Roller Assy Hopping	52
....3.3.26 Hopping Roller Assy	53
....3.3.27 PXU PCB/PXM PCB, Lever Resist Sensor	54
....3.3.28 Paper End Lever	55
....3.3.29 PCO PCB (Operator Panel)	56
....3.3.30 Holder Gear Toner Assy	57
....3.3.31 Plate Latch Lever (FD), Spring Latch Lever (FD)	58
....3.3.32 Transfer Belt	59
....3.3.33 High Voltage Power Supply Unit, Bracket HV (BT) Assy	60
....3.3.34 Eraser Bracket Assy, Eraser Bracket (KCM) Assy	61
....3.3.35 Shaft Link	62
....3.3.36 Contact Bracket (BL-R) Assy, Contact Bracket (CL-R) Assy	63
....3.3.37 Contact (BL-L) Assy, Contact (CL-L) Assy	64
....3.3.38 Contact SB Assy	65
....3.3.39 PXC PCB	66
....3.3.40 Heat Unit Assy (Fuser unit and oil roller)	67
....3.3.41 Oil Roller Kit	68
....3.3.42 Lever Lock Heat (L)/(R), Guide Side Heat, Spring Lock	69
....3.3.43 PXL PCB	70
....3.3.44 Heat Unit Guide Assy	71
....3.3.45 Holder LED Assy, LED Head	72
4 Adjustments	
4. Adjustments	73
4.1 Maintenance Modes and Their Functions	74
....4.1.1 User maintenance mode	75
....4.1.2 System maintenance mode	76
....4.1.3 Engine maintenance mode	77
4.2 Adjustments after Parts Replacement	78
....4.2.1 Confirm the LED head driving time	79

Table of Contents	Page
....4.2.2 Color Registration Using the Operator Panel (Color deviation correction)	80
5 Maintenance	
Preventive Maintenance	81
....5.1 Periodically Replaced Parts	82
....5.2 Cleaning	83
....5.4 Cleaning the Pickup Roller	84
6 Troubleshooting Procedures	
6.0 Troubleshooting Procedures	85
....6.1 Troubleshooting Tips	86
....6.2 Points to Check before Correcting Image Problems	87
....6.4 Preparation for Troubleshooting	88
....6.5 Troubleshooting Flow	89
.....6.5.1 LCD status message/problem list	90
.....6.5.2 LCD message troubleshooting	91
.....6.5.3 Image Troubleshooting	92
.....Blank paper	93
.....Vertical black	94
.....Vertical white	95
.....Poor fusing (Images are blurred or peeled off when touched)	96
.....Evenly spaced, repeating marks	97
.....Missing characters or colors	98
.....Poor synthesization Color	99
.....Printout colors different from original colors	
7 Wiring Diagram	
7.1 Resistance Check	100
7.2 Program/Font ROM Location	101
8 Centronics Parallel Interface	
Centronics Parallel Interface	102
A Illustrated Parts List	
Diagram A1: Covers (Top & Sides)	103
Diagram A2: Printer Unit	104
Diagram A3: Main Chassis Unit (1)	105
Diagram A4: Main Chassis Unit (2)	106
Diagram A5: Main Chassis Motor/PCB	107
Diagram A6: Frame Upper Assy	108
Diagram A7: Guide Cassette (R) Assy	109
Diagram A8: Main Motor (A) Assy	110
Diagram A9: Main Motor (B) Assy	111
Product Accessory: I. Second Paper Feed	
Preface	112
1.0 Outline	113

Table of Contents	Page
....1.1 Functions	114
....1.2 External View and Component Names	115
2.0 Mechanism Description	116
....2.1 General Mechanism	117
....2.2 Hopper Mechanism	118
3.0 PARTS REPLACEMENT	119
....3.1 Precautions Concerning Parts Replacement	120
....3.2 Parts Layout	121
....3.3 Parts Replacement Methods	122
.....3.3.1 Idle rollers	123
.....3.3.2 AOLT-PCB	124
.....3.3.3 Hopping motor	125
.....3.3.4 Feed roller	126
.....3.3.5 Hopping roller	127
.....3.3.6 Side frame (L) assy	128
.....3.3.7 Side frame (R) assy	129
4.0 Troubleshooting	130
....4.1 Precautions Prior to the Troubleshooting	131
....4.2 Preparations Prior to the Troubleshooting	132
....4.3 Troubleshooting Method	133
.....4.3.1 LCD Status Message List	134
.....4.3.2 Troubleshooting Flow	135
5.0 CONNECTION DIAGRAM	136
....5.1 Interconnection Diagram	137
....5.2 PCB Layout	138
6. PARTS LIST	139
....High Capacity Second Paper Feeder	140
....2nd Tray Assembly	141

Preface

This manual provides procedures and techniques for the troubleshooting, maintenance, and repair of OKIPAGE 8c.

This manual is written for maintenance personnel, but it should always be accompanied with the OKIPAGE 8c User's Manual for procedures for handling and operating OKIPAGE 8c. For repairing each component of OKIPAGE 8c, see the Troubleshooting Manual.

[Notices]
The contents of this manual are subject to change without prior notice. Although reasonable efforts have been taken in the preparation of this manual to assure its accuracy, this manual may still contain some errors and omissions. OKI will not be liable for any damage caused or alleged to be caused, by the customer or any other person using this maintenance manual to repair, modify, or alter OKIPAGE 8c in any manner.

[Warning]
Many parts of OKIPAGE 8c are very sensitive and can be easily damaged by improper servicing. We strongly suggest that OKIPAGE 8c be serviced by OKI's authorized technical service engineers.

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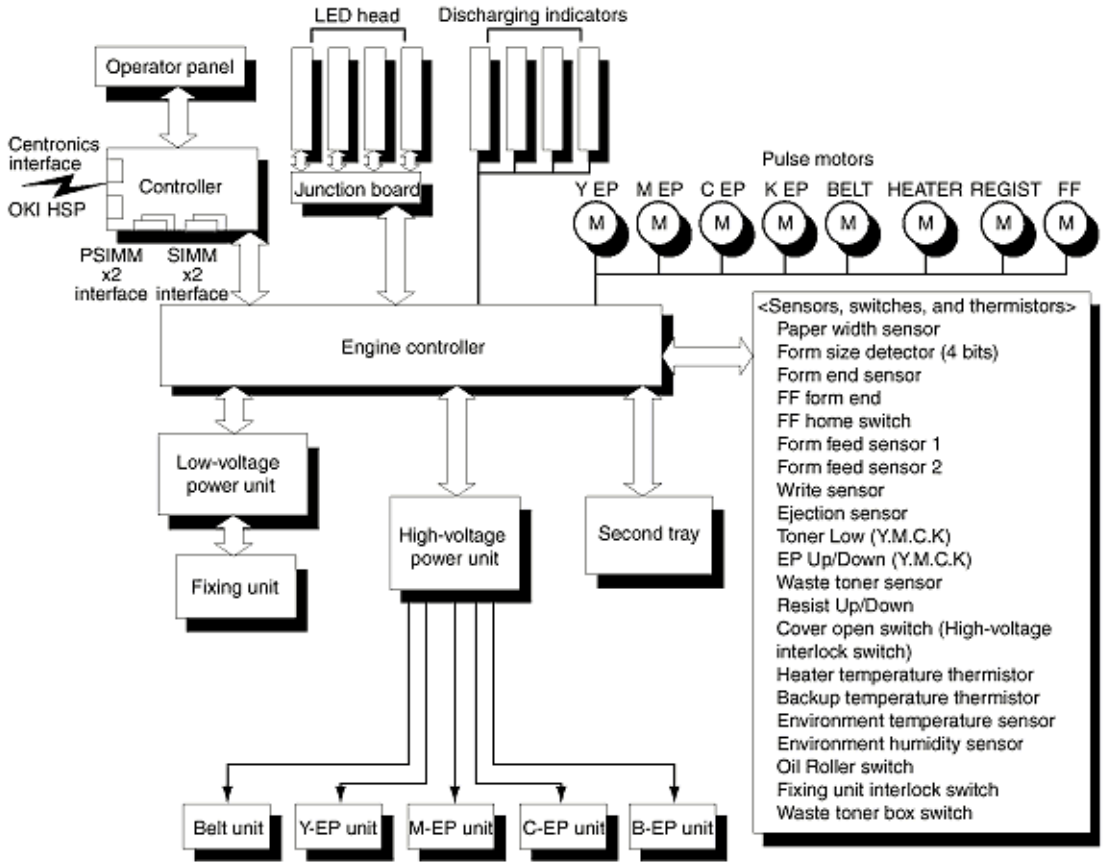
1.1 Basic System Configuration

This diagram shows the basic system configuration of OKIPAGE 8c.



Basic System Configuration Diagram

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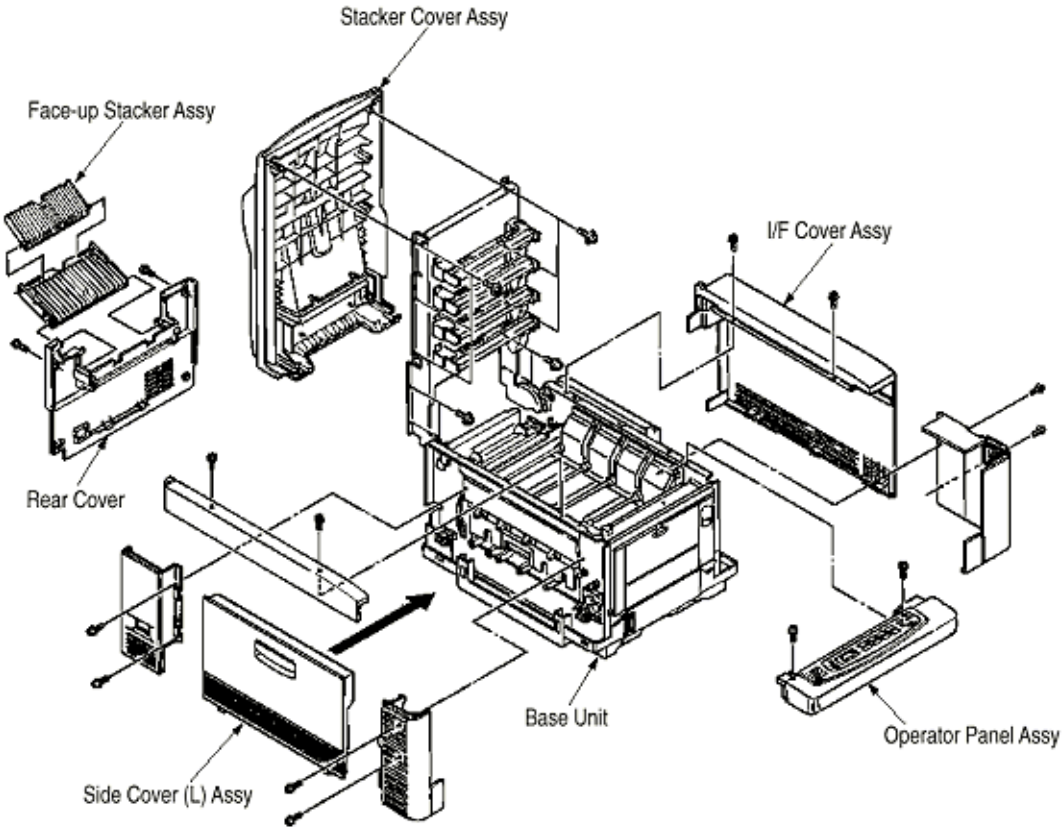
1.2 Printer Specifications

This printer unit is composed of the following hardware.

- Electro-photographic processor
- Paper feeder
- Controller (CU part / PU Part)
- Operator panel
- Power board (High voltage part / PU part)

This diagrams shows the printer unit configuration.



Printer Unit Configuration Diagram

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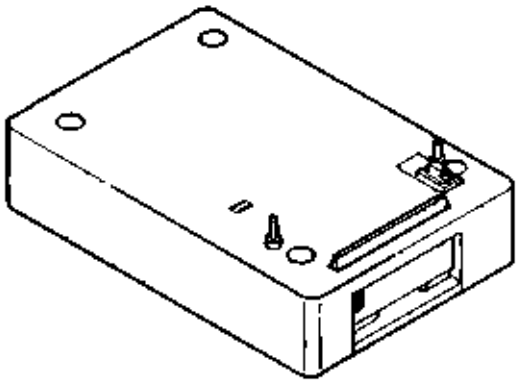
1.3 Option Specifications

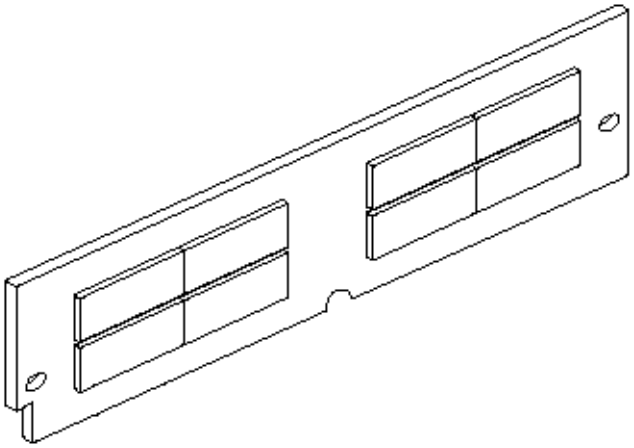
The OKIPAGE 8c options are listed below.

(1) Second Paper Feeder



(2) RAMM SIMM module (72 pin SIMM, 4MB/8MB/16MB/32MB)

- Make sure to use a set of 2 of the same volume size modules.



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1.4 Basic Specifications

(1)	**Dimensions**	Width: 18.8"
(2)	**Weight**	Approx. 91 lbs. without box
(3)	**Form**	
	Type:	Ordinary paper (Hammermill xx lb.) and Transparency (Only CG3710) Recommended paper (for color printing) Note: the printout color tones are dependent upon the whiteness of the print paper.
	Sizes:	Letter, Legal (13" or 14"), Executive, A4, A5, B5, and B6 (1st tray and front feeder)
	Reams:	1st tray - 20 lbs. to 28 lbs. 2nd tray - 20 lbs. to 28 lbs. Front feeder - 20 lbs. to 44 lbs.
(4)	**Printing speed:**	8 pages per minute (5 pages per minute: Transparency / 34 lb. ~ 44 lb., 123g/m^2 ~ 166g/m^2)
(5)	**Resolution**	600 dots per inch x 600 dots per inch
(6)	**Input voltage**	120VAC +5.5%, -15% 230VAC to 240VAC +10%, -14%
(7)	**Power consumption**	Peak: Approx. 980W Typical operation: Approx 230W Idle: Approx 70W Power save mode: Approx 32W
(8)	**Frequency**	50Hz or 60Hz +2%, -2%
(9)	**Noises**	Operating: 54 decibels (without 2nd tray), 55 decibels (with 2nd tray) Standby: 45 decibels Power-saving: 43 decibels
(10)	**Expendables and service life**	Toner Cartridge: Approx. 1800 pages (5% density) (each of Y, M, C, and K) Image Drum: Up to 12,000 pages (5% density, continuous) (each of Y, M, C and K) Waste Toner Box: Up to 25,000 sheets (under typical printout conditions: Single images of 5% density, equivalent to printout using 14 toner cartridges) Oil Roller Unit: Up to 10,000 sheets (Life defined in the number of actual printed paper sheets) **Note:** Y=Yellow, M=Magenta, C=Cyan, K=Black
(11)	Periodically replaced parts	Fuser Heat Unit Assy: 60,000 pages Transfer Belt Cassette Assy: 50,000 pages

(12) Temperatures and relative humidities

Temperature

Temperature conditions			
	Fahrenheit	**Celsius**	**Remarks**

Operating	50 to 89.6	10 to 32	17 Celsius to 27 Celsius (for assurance of full-color printout quality)
Non-operating	32 to 109.4	0 to 43	Power off
Storage (1 year max.)	-14 to 109.4	-10 to 43	with drum and toner
Delivery (1 month max.)	-20 to 122	-29 to 50	without drum and toner and Belt Cassette Assy
Delivery (1 month max.)	-20 to 122	-29 to 50	with drum and toner

Humidity

Humidity condition			
	Fahrenheit	**Celsius**	**Remarks**
Operating	20 to 80	5	50% to 70% (for assurance of full-color printout quality)
Non-operating	10 to 90	26.8	Power off
Storage	10 to 90	35	
Delivery	10 to 90	40	

(13) Printer life - 3,000,000 (A4) pages or 5 years

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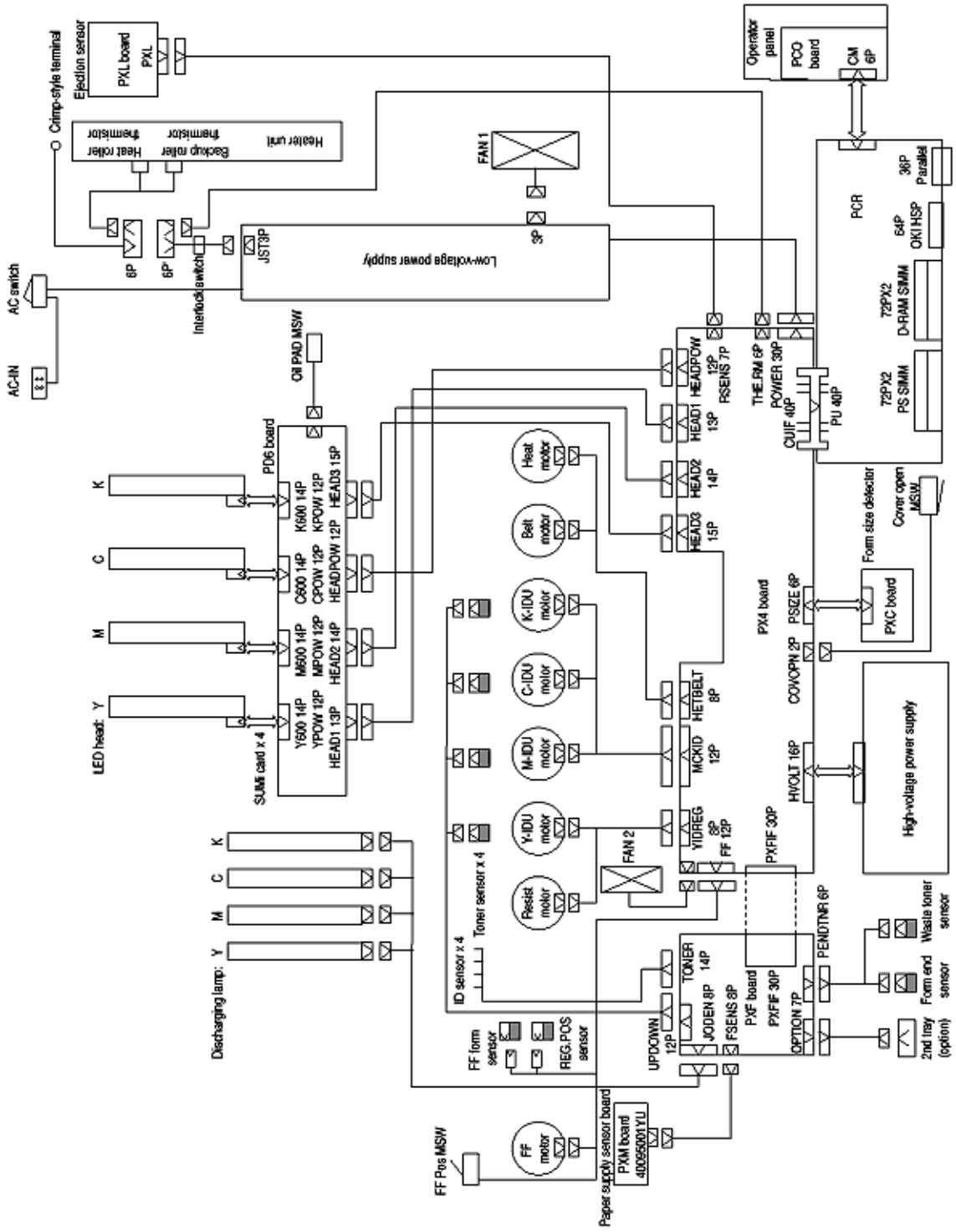
2. Operation

OKIPAGE 8c is a tandem color electrophotographic page printer, using 4992 Pixel-LED technologies, OPC, dry single-component non-magnetic developing, roller transfer, heat-compression fixing (fusing). The printing method used is a Black Writing method which applies light beams to printout areas.

Here is the Functional Block Diagram of OKIPAGE 8c.



Functional Block Diagram

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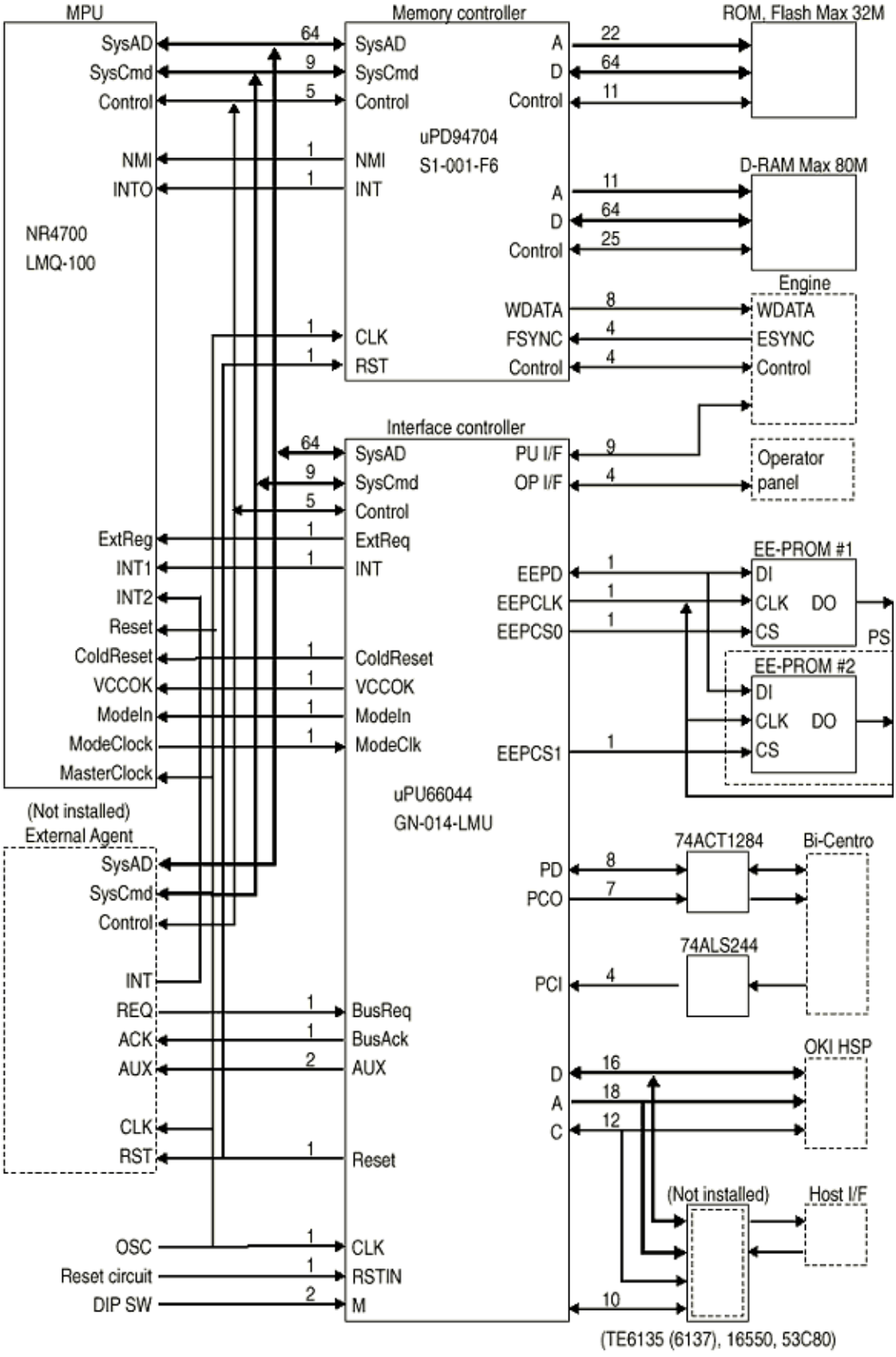
2.1 Main Control Board (PCR PCB)

The control board consists of a CPU (NR4700) block, a memory control LSI block, an interface control LSI block, a DRAM block, an EEPROM block, a mask ROM block, and an interface block.

Here is the Functional Block Diagram of the main control board (PCR PCB).


MPU
SysAD
SysCmd
Control
NMI
INTO
NR4700
LMQ-100
ExtReg
INT1
INT2
Reset
ColdReset
VCCOK
ModeIn
ModeClock
MasterClock
(Not installed)
External Agent
SysAD
SysCmd
Control
INT
REQ
ACK
AUX
CLK
RST
OSC
Reset circuit
DIP SW
64
9
5
1
1
1
1
64
9
5
1
1
1
1
1
1
1
1
2
1
1
2
Memory controller
SysAD
SysCmd
Control
uPD94704
S1-001-F6
NMI
INT
CLK
RST
Interface controller
SysAD
SysCmd
Control
ExtReq
INT
ColdReset
VCCOK
ModeIn
ModeClk
uPU66044
GN-014-LMU
BusReq
BusAck
AUX
Reset
CLK
RSTIN
M
A
D
Control
WDATA
FSYNC
Control
PU I/F
OP I/F
EEPD
EEPCLK
EEPCS0
EEPCS1
PD
PCO
PCI
D
A
C
22
64
11
11
64
25
8
4
4
9
4
1
1
1
1
8
7
4
16
18
12
10
ROM, Flash Max 32M
D-RAM Max 80M
Engine
WDATA
ESYNC
Control
Operator
panel
EE-PROM #1
DI
CLK DO
CS
PS
EE-PROM #2
DI
CLK DO
CS
74ACT1284
Bi-Centro
74ALS244
OKI HSP
(Not installed)
Host I/F
(TE6135 (6137), 16550, 53C80)

Functional Block Diagram of Main Control Board

(1) CPU

The CPU is a 64-bit RISC architecture processor (provided y NKK). It inputs a frequency of 50 MHz and runs at 100 MHz. It transfers data to a from memory at 50 MHz.

(2) Mask ROM

The mask ROM block consists of four 16 Mbit (1M x 16 bits) chips and its total size is 8M bytes. The chips are mounted on the PCR-PCB by means of IC sockets and store programs and character fonts.

(3) DRAM

The DRAM block consists of eight 16 Mbit (1M x 16bits) chips and its total size is 16M bytes. The chips are mounted on the PCR-PCB and can be expanded up to 80M bytes by adding the 32M byte SIMMs to the SIMM slots on the PCR-PCB.

(4) EEPROM

The EEPROM block consists of 1K-bit chips mounted on a board by means of IC sockets and stores the following:

- Menu data
- Counter values
- Adjustment values

(5) Flash ROM

The Flash ROM block consists of four 4M bit (256K x 16bits) chips and its total size is 2M bytes. The chips are mounted on the PCR-PCB and are used for storing fonts, macro and demo pages.

(6) Memory control LSI

This block mainly consists of memory control, CPU control, compression and decompression, and video interface functions.

(7) Interface control LSI

This block mainly consists of PU interface control, operator panel interface control, EEPROM control, parallel interface control, and HSP control functions.

(8) Host interface

The printer has the following interfaces to the host.
Centronics bi-directional parallel interface
OKI HSP interface (Option)

The single effective interface or the automatic interface select mode can be selected using the menu. If the busy state of the printer continues for a long time period, the buffer near-full control releases the busy status at constant intervals even if the host side is busy so as not to cause interface time-out at the host side.

(a) Centronics bi-directional parallel interface

This is an interface confirming to IEEE-1284 and provides either unidirectional ad bi-directional communications according to each of the following communication modes.

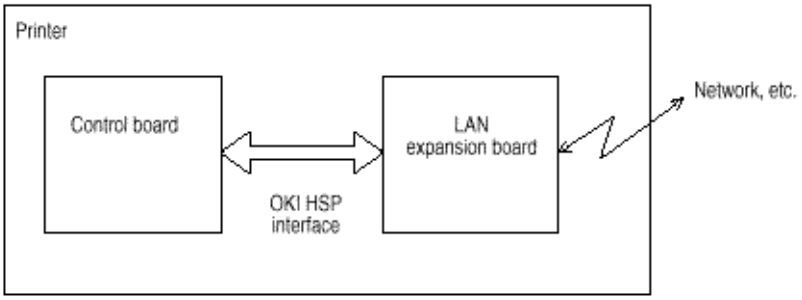
- **Compatibility mode** - Unidirectional communications from the host to the printer.
- **Nibble mode** - This mode transfers 4-bit wide data from the printer to the host. In this mode, each bit of 1-byte data transmits in the form of two nibbles using ERROR, BUSY, FAULT, and SELECT signal leads. This mode can provide bi-directional operation in combination with the compatibility mode.
- **ECP mode** - This mode provides the asynchronous bi-directional interface and transmits and receives 1-byte data using eight data signal leads under semi-duplex control by the host.

When the power is turned on, the compatibility mode is automatically selected. The change to another mode form the compatibility mode is made through negotiation. (When the BI-DIRECTION is set to ENABLE in the menu, this change can be performed.) (For the electrical/physical characteristics of this interface, see APPENDIX B).

(b) OKI HSP interface (Option)

This interface (slot) is an OKI unique universal interface that provides the platform to connect various boards (including those supplied by third vendors) such as the LAN connection expansion board and SCSI expansion board.

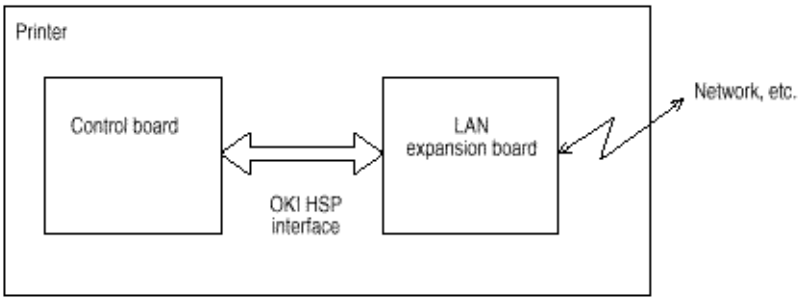
Any expansion boards compatible with this interface can be mounted on the Control board the piggyback board from without modifying the program at the printer side. Refer to the Conceptual Diagram of the OKI HSP interface.



Conceptual Diagram of OKI HSP Interface

(9) RAM module

- Pin layout



- Basic specification

Type:	
Access time:	72 pins SIMM (32 bits buss width)
Capacity:	60ns, 70ns, 80ns
Parity:	4, 8, 16 32 or 64MB
	None

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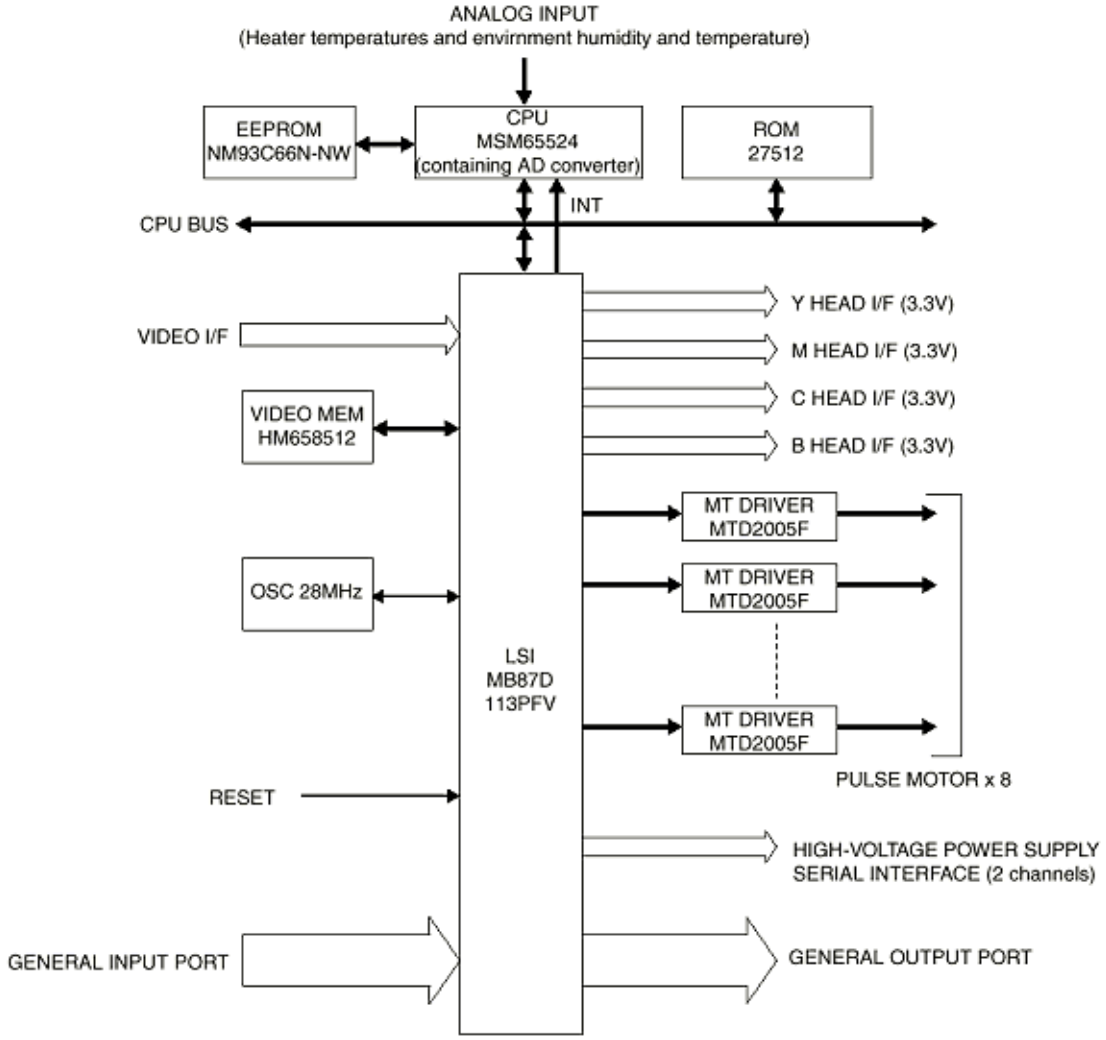
2.2 Engine Control Board (PX4 PCB)

ANALOG INPUT

(Heater temperatures and environmental humidity and temperature)

Yellow (Y), Magenta (M), Cyan (C), Black (B)



Engine Control Board Block Diagram

The engine control block (PU) is controlled by the engine control board (PX4 PCB) which consists of a CPU (MSM65524), general purpose LSI chips, EPROM, EEPROM, pulse motor drivers, and video memory. Refer to the Engine Control Board Block Diagram.

(1) CPU
This is an 8-bit CPU (OKI MSM65524) containing the AD converter and controls the whole system.

(2) General-purpose LSI
This LSI (MB87D113PFV) is provided in the printer engine control block and has controller-engine video interface, LED interface, motor control, sensor input, video memory control, main scanning color correction, skew correction, high-voltage power control, and OST-EX2 functions.

(3) EPROM
This EPROM (275C512-150) has a storage capacity of 512K bits and stores programs for the PU block.

(4) EEPROM
This EEPROM (NM93C66N-NW) has a storage capacity of 4K bits. It is mounted on the board by means of IC socket and stores adjustment values.

(5) Pulse motor drivers
These drivers (MTD2005F) drive eight pulse motors for moving up and down the image drum (EP) and transferring medium.

(6) Video memory
This SRAM received print data through video interface and stores it.

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2.3 Power/Board

The power board consists of an AC filter circuit, a low voltage power supply circuit, a high voltage power supply circuit, and heater drive circuit, and photo sensors.

(1) Low voltage power supply circuit.

This circuit generates the following voltages.

Output voltage	Use
+3.3 V	CU Unit CPU, LED HEAD
+5 V	Logic circuit supply voltage
+32 V	Motor and fan drive voltage and source voltage for high-voltage supply, discharge lamp
+12 V	HSP, OP Amp, high voltage power supply
-12 V	HSP

(2) High voltage power supply circuit

This circuit generates the following voltages necessary for electro-photographic processing from +32 V in accordance with the control sequence from the control board. When cover open state is detected, +32 V supply is automatically interrupted to stop the supply of all high-voltage outputs.

YMCK = Yellow, Magenta, Cyan, Black

Output	Voltage	Use	Remarks
CH	-1.35 KV ±50V	Voltage applied to charging roller	
DB	Normal paper Y.M.C.K.: -250V/+300V, -232V/+300V (First paper: Y only) K.: -270V/+300V Transparency Y.M.C.: -200V/+300V, K.: -250V/+300V	Voltage applied to developing roller	
SB	Y.M.C.K.: -650V/0V	Voltage applied to toner supply roller	
TR	0 to 4 KV	Voltage applied to transfer roller	Variable
FIX	0 to 2.5 KV	Voltage applied to transfer roller	Variable

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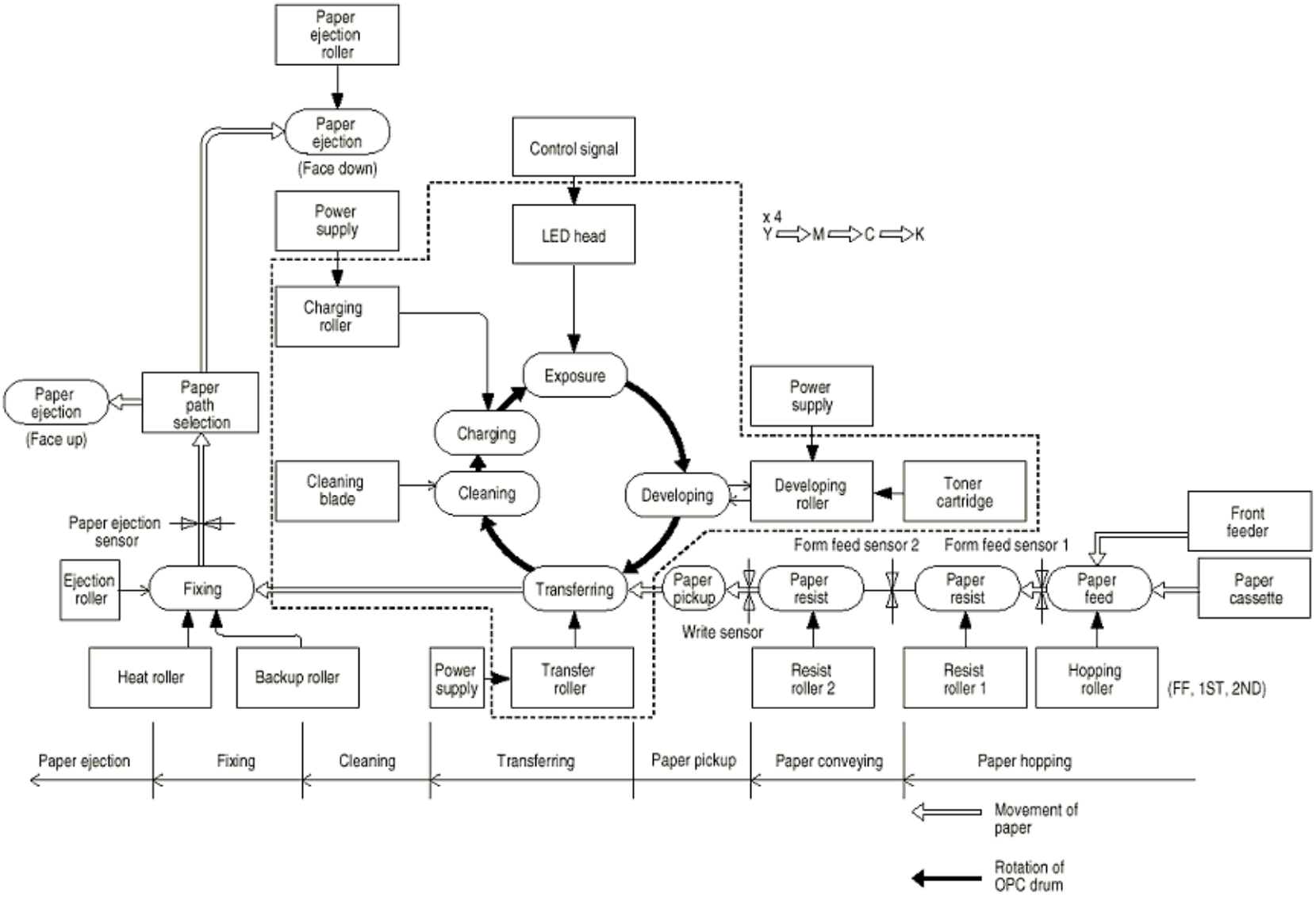
2.4 Mechanical Processes

Here is the Mechanical Process Diagram of OKIPAGE 8c.


Paper ejection roller
Paper ejection
(Face down)
Control signal
Power supply
LED head
x 4
Y M C K
Charging roller
Exposure
Paper ejection
(Face up)
Paper path selection
Power supply
Charging
Cleaning blade
Cleaning
Developing
Developing roller
Toner cartridge
Front feeder
Paper ejection sensor
Form feed sensor 2
Form feed sensor 1
Ejection roller
Fixing
Transferring
Paper pickup
Paper resist
Paper resist
Paper feed
Paper cassette
Write sensor
Heat roller
Backup roller
Power supply
Transfer roller
Resist roller 2
Resist roller 1
Hopping roller
(FF, 1ST, 2ND)
Paper ejection
Fixing
Cleaning
Transferring
Paper pickup
Paper conveying
Paper hopping
Movement of paper
Rotation of OPC drum

Mechanical Process Diagram (Figure 2.5)

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2.4.1 Electrophotographic processing mechanism

(1) **Electrophotographic processed** - Each process of the electrophotographic processing mechanism is outlined below.

(1) Paper pickup - This process causes the roller to give a DC voltage to the paper, resulting in a negative charge. With this negative charge, the paper is electrostatically attracted to the roller.

(2) Charging - This process gives a DC voltage to the charge roller so that the image drum may have a uniform negative charge on its surface.

(3) Exposure - This process causes the LED head to apply light beams according to image signals to the negatively-charged surface of the image drum. The negative charge on the illuminated surface of the image drum is reduced according to magnitudes of the light beams. Thus, a latent image is formed on the surface of the image drum according to the resulting surface potentials.

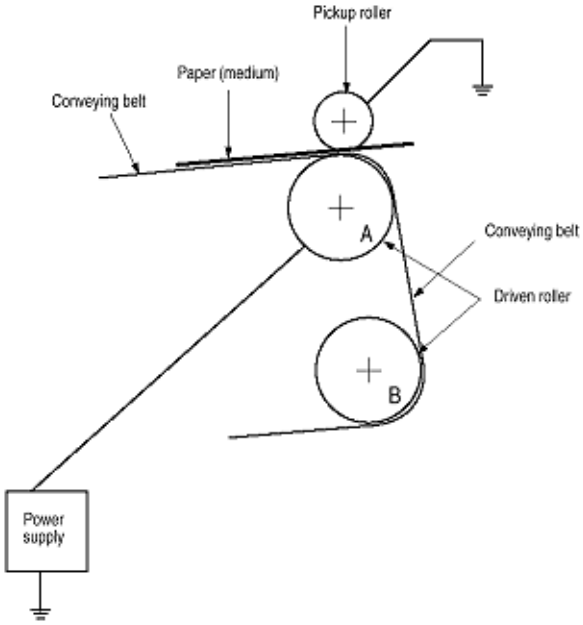
(4) Developing and recovery of excessive toner - This process applies negatively-charged toner to the surface of the image drum. The toner is electrostatically attracted to the latent image to form a visible image on the surface of the image drum. Simultaneously, this process electrostatically transfers excessive toner from the image drum to the developing roller.

(5) Transferring - This process fits paper to the surface of the image drum and applies positive charge (opposite to the charge of the toner) to the back side of the paper from the transfer roller. The toner image is transferred to the paper.

(6) Cleaning - Cleaning blade scrapes off the remaining toner of any image drum, which has been used to transfer the image drum the drum to the paper.

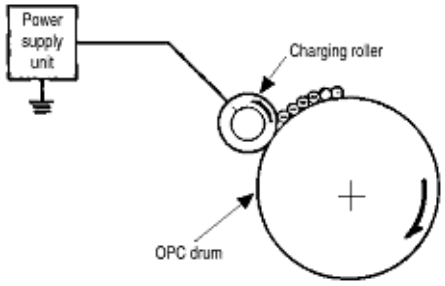
(7) Fixing - This process fixes the toner image on the paper by pressing the fusing the image.

(2) **Paper pickup**

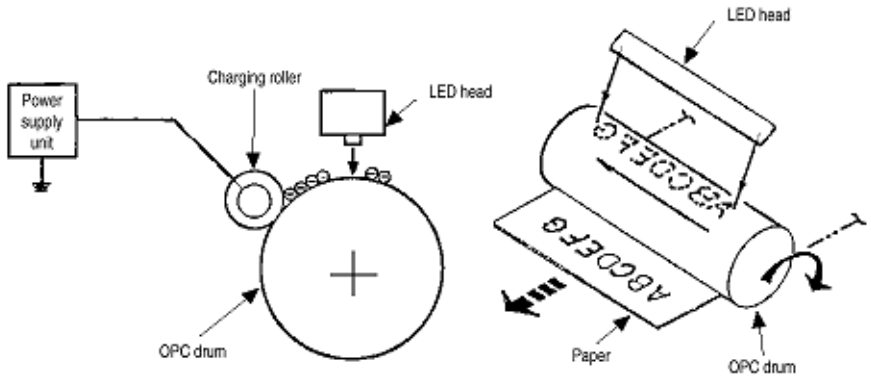


A DC voltage (0V to 2KV) is applied to the driven roller A, to create a positive charge on the lower surface of the paper. The
kept in charged paper is electrostatically attracted to the pickup roller. The paper is in close contact with the conveying Belt
and moves steadily.

(3) Charging - This process applies a DC voltage to the charging roller in contact with the surface of the image drum.

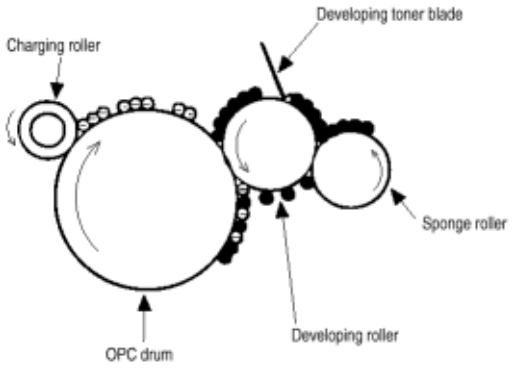


(4) Exposure - The light beams from the LED head are applied to the surface of the image drum which is charged
negatively. The negative charge on the illuminated surface f the image drum is reduced according to the magnitude of the
light beams and a latent image is formed on the surface of the image drum according to the resulting surface potentials.



(5) Developing - This process applies toner to the latent image on the surface of the drum to create a toner image.
Developing is carried out on the surface of the image drum at where the image contacts with the developing roller.

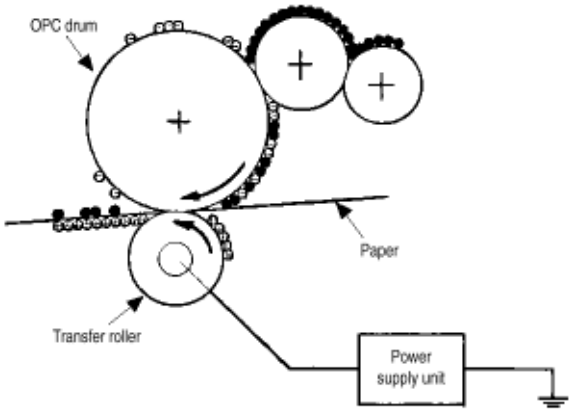
(1) The sponge roller transfers toner to the developing roller. The toner is charged negatively.



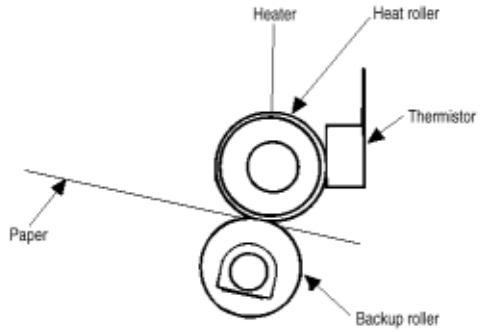
(2) The toner blade scrapes away excess toner from the developing roller, leaving a thin film of toner on the surface of the developing roller.

(3) The toner is attracted to the latent image on the surface of the image drum, where the image drum contacts the developing roller. The latent image on the surface of the image drum is made visible with the toner.

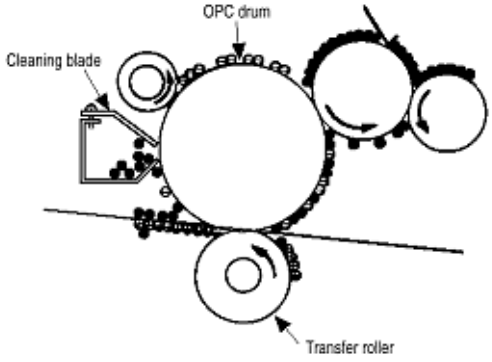
(6) Transferring - The transfer roller made of conductive sponge presses the paper against the surface of the image drum. The paper will make close contact with the surface of the image drum. This process fits the paper to the surface of the image drum (using the transfer roller) and applies a positive charge (opposite to the charge of the toner) from under the paper. When a positive high voltage is applied to the transfer roller from the power supply, the positive charge induced on the transfer roller jumps to the upper surface of the paper (where the transfer roller touches the paper) and attracts the negatively-charged toner from the surface of the image drum onto the surface of the paper.



(7) Fixing - The toner image just transferred to the paper is fused and fixed to the paper while the paper is passing through the gap between the heat roller and the backup roller. The teflon-coated surface of the heat roller is heated by the 800-watt heater (or a halogen lamp) in the heat roller. The temperature of the heat roller surface is controlled by a thermistor in contact with the surface of the heat roller. A thermostat is provided for safety. When the heat roller temperature rises above the preset temperature, the thermostat opens and shuts off power to the heater in the heat roller. The backup roller is evenly pushed against the heat roller by two end springs.



(8) Cleaning - The toner which remains on the (OPC) Image Drum without being fused is scraped by a cleaning blade and discarded in the waste toner tank.



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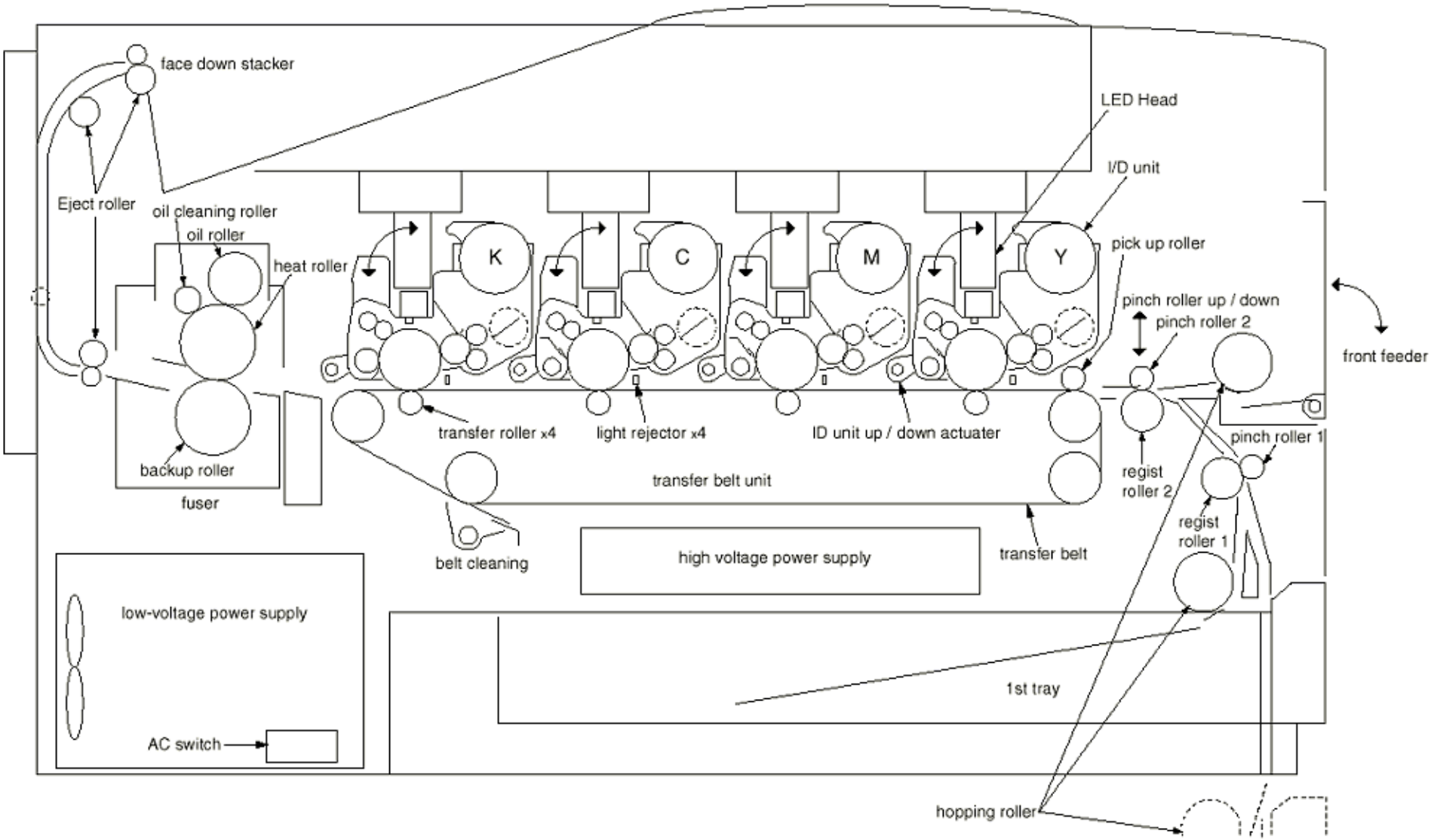
2.4.2 Paper running process

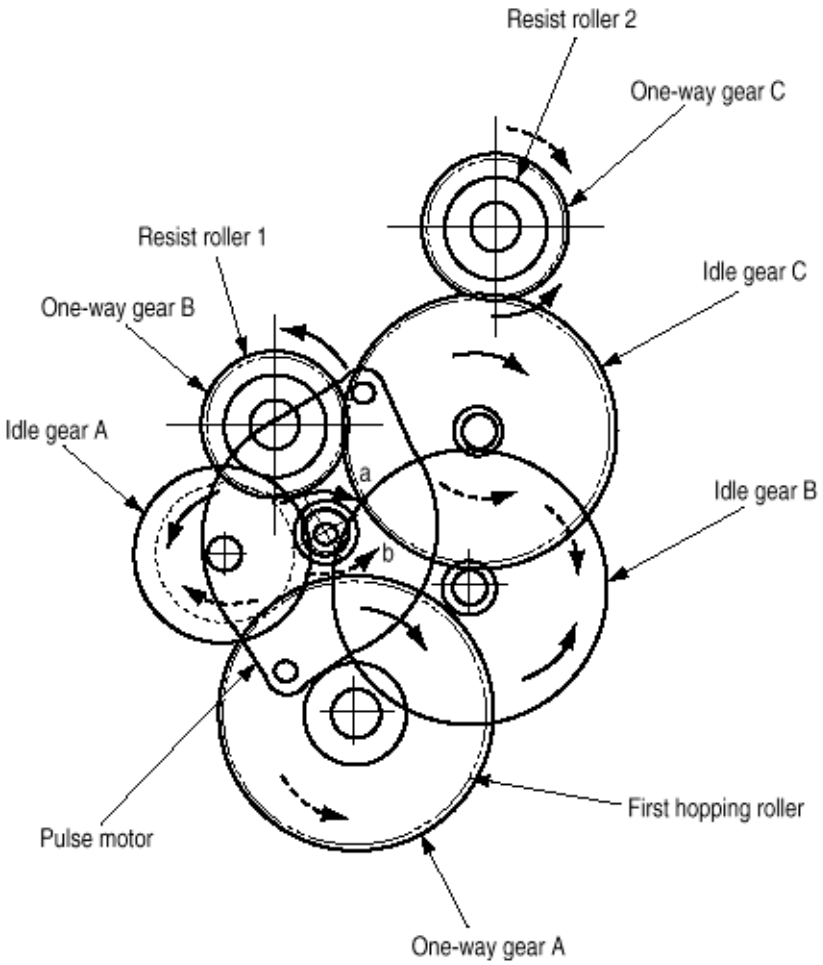
How paper moves through the OKIPAGE 8c is shown in the Paper Route Diagram.

Y=Yellow; M=Magenta; C=Cyan; K=Black


face down stacker
Eject roller
oil cleaning roller
oil roller
heat roller
backup roller
fuser
LED Head
I/D unit
K
C
M
Y
pick up roller
pinch roller up / down
pinch roller 2
front feeder
transfer roller x4
light rejector x4
ID unit up / down actuater
pinch roller 1
regist roller 2
transfer belt unit
regist roller 1
belt cleaning
high voltage power supply
transfer belt
low-voltage power supply
1st tray
AC switch
hopping roller

(1) Paper hopping and transfer and up/down movement of pinch roller 2

Paper is hopped and delivered by the mechanism shown below. This mechanism is driven by a single pulse motor.

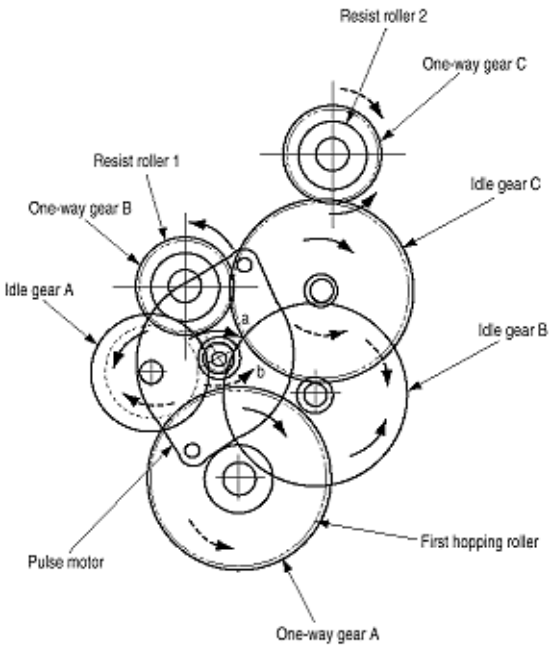


The pulse motor turns in the arrow direction (a) and drives the hopping roller in the direction of "b". The hopping roller drives the resist roller. Gears A, B, and C, have one-way clutches to prevent the roller form rotating reversely.

a) Hopping

(1) The pulse motor turns in the arrow direction of "a" (counterclockwise) and drives the hopping roller to move the paper until the Entrance sensor turns on. Although the one-way gears B and C are driven, the resist roller 2 does no turn.
The reverse rotations of the one-way clutch gears are not transmitted to the resist roller.

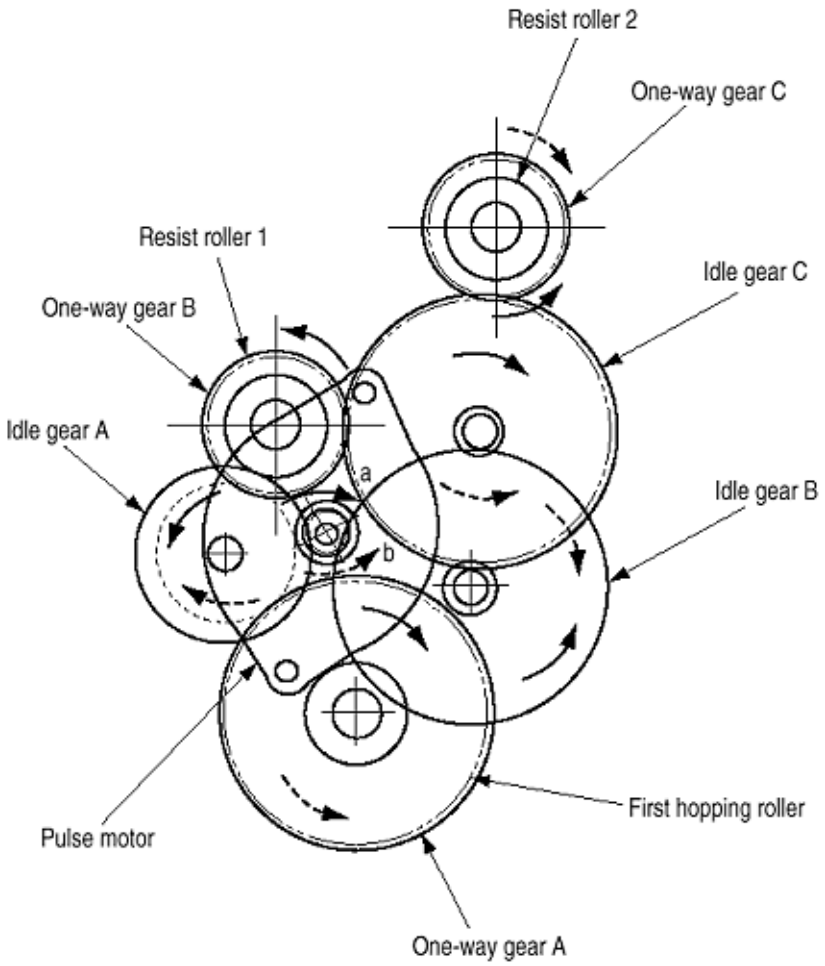
(2) After the Entrance sensor turns on, the hopping roller keeps on feeding the paper until it hits the resist roller 1. This operation corrections any paper skew.



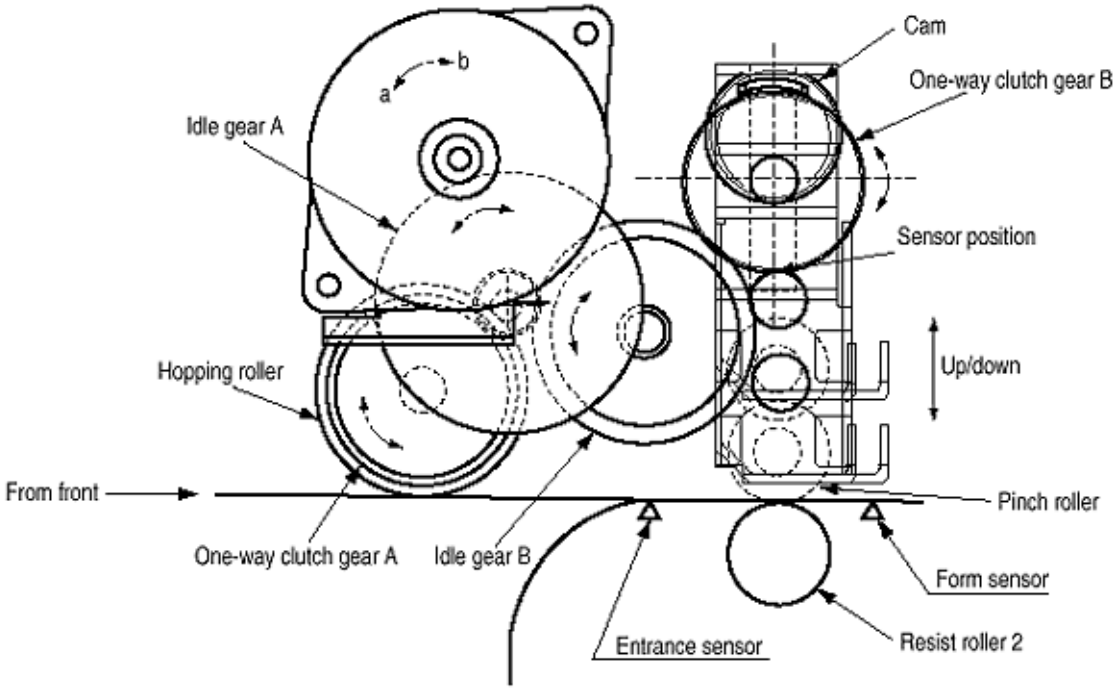
b) Conveying

(1) After paper hopping is completed, the pulse motor turns right (in the direction of "b") to drive the resist rollers 1 and 2. The resist rollers feed the paper until the Form sensor turns on. Although the one-way gear A is also driven, the hopping roller does not turn because of the one-way clutch.

(2) The paper is further fed in synchronism with the print data.



(2) The hopping operation of the front feeder and the up/down operation of the pinch roller 2 are performed by a single pulse motor.

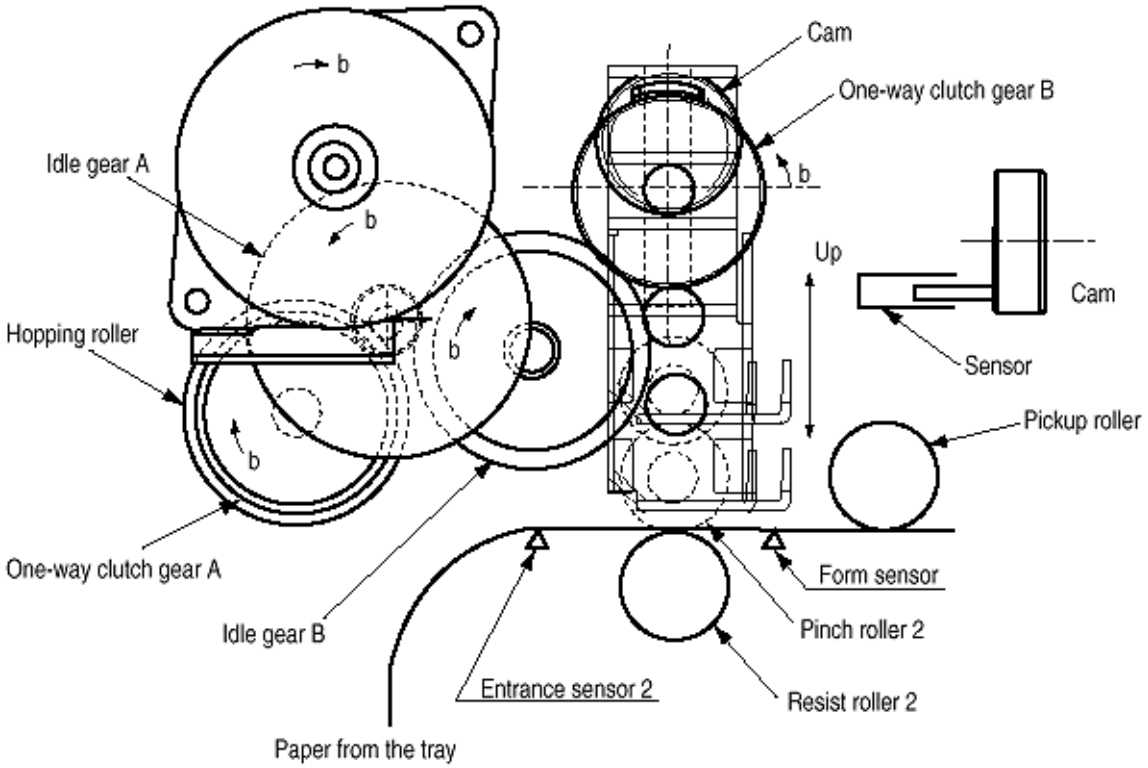


When the pulse motor of the front feeder turns right (in the direction of "A"), the front hopping roller turns left (in the direction of "b") to drive the cam. This cam moves up an down the pinch roller 2. The one-way clutch gears are made to turn only in a present direction by means of the one-way clutches.

(a) First and second hopping rollers

1 When the front edge of the paper passes by the pickup roller, the pulse motor of the front feeder turns counter-clockwise (in the direction of "b" to drive the cam. The cam moves up the pinch roller 2. Although the one-way clutch gear A is also rotating, the hopping roller of the front feeder does not rotate (because of the one-way clutch).

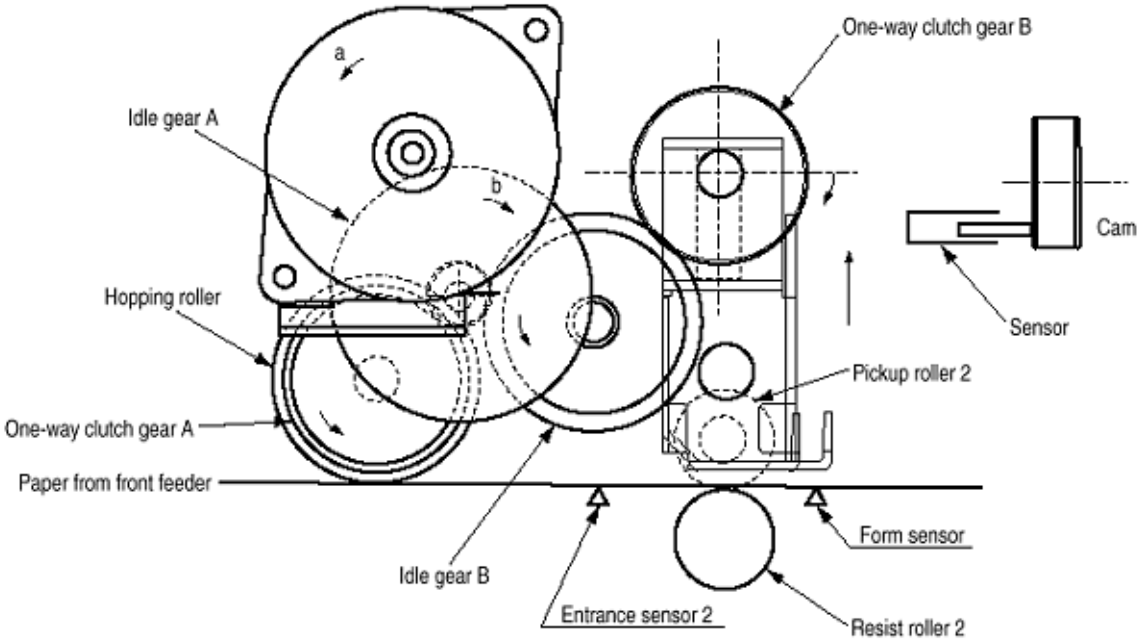
2 When the rear edge of the paper passes by the Entrance sensor 2, the pulse motor of the front feeder turns counter-clockwise (in the direction of "b") to drive the cam. The cam moves down the pinch roller 2 until it is sensed by the sensor. Although the one-way clutch gear A is also rotating, the hopping roller of the front feeder does not rotate (because of the one-way clutch).



(b) Front feeding hopping

(1) The pulse motor of the front feeder turns right (in the direction of "a") to drive the hopping roller. The paper feeds until the Entrance sensor 2 is activated. Although the one-way clutch gear B is also rotating, the pinch roller 2 does not drive the up/down cam (because of the one-way clutch). After the Entrance sensor is activated, the paper feeds until it reaches the resist roller.

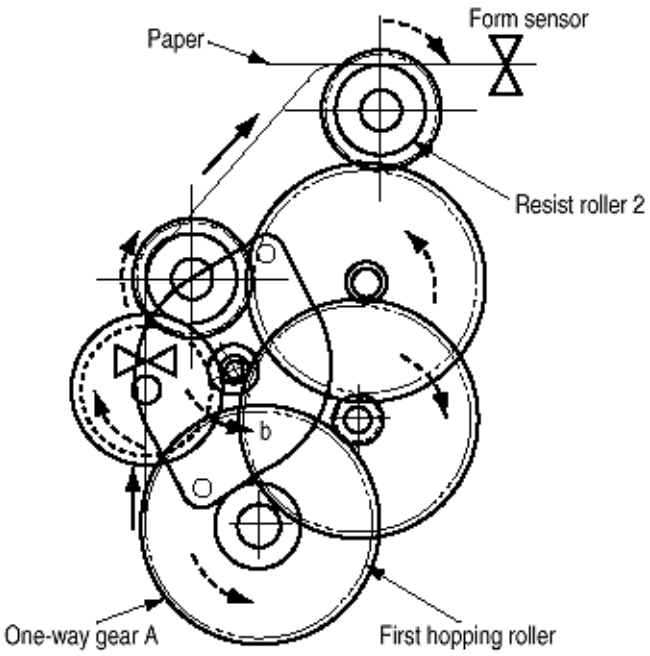
(2) This operation corrects any paper skew.



(c) Conveying

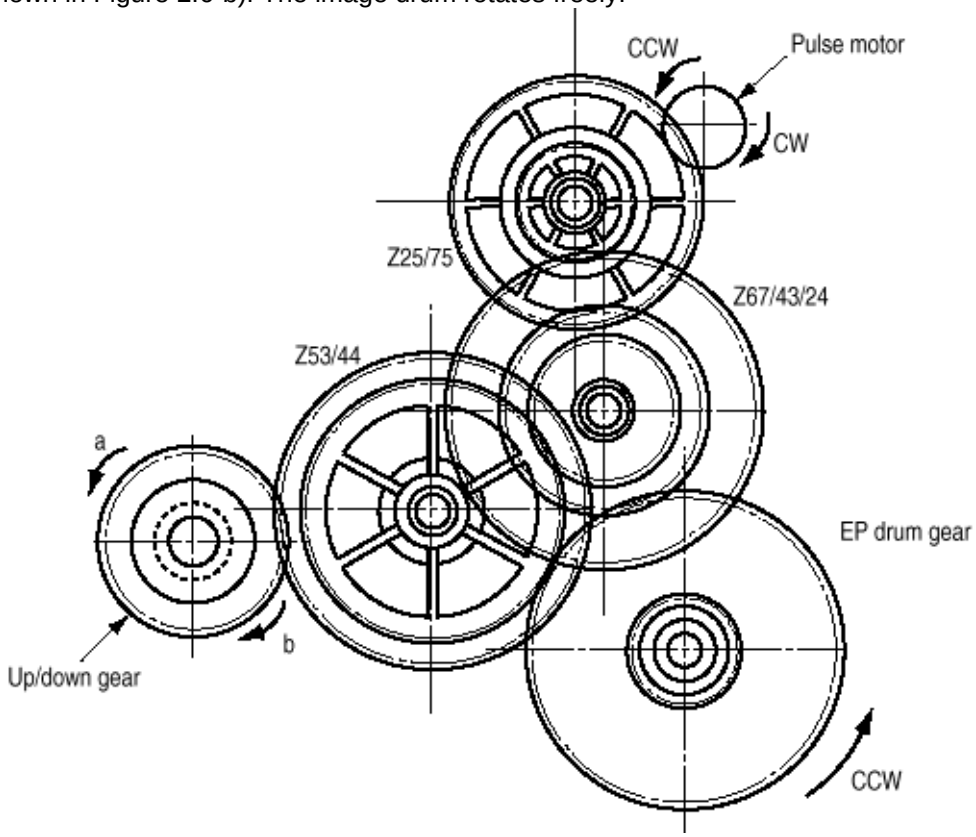
(1) After paper hopping is completed, the pulse motor turns right (in the direction of "b") to drive the resist rollers 1 and 2. The resist rollers feed the paper until the Form sensor turns on.

(2) Although the one-way gear A is also driven, the first hoping roller does not turn (because of the one-way clutch).

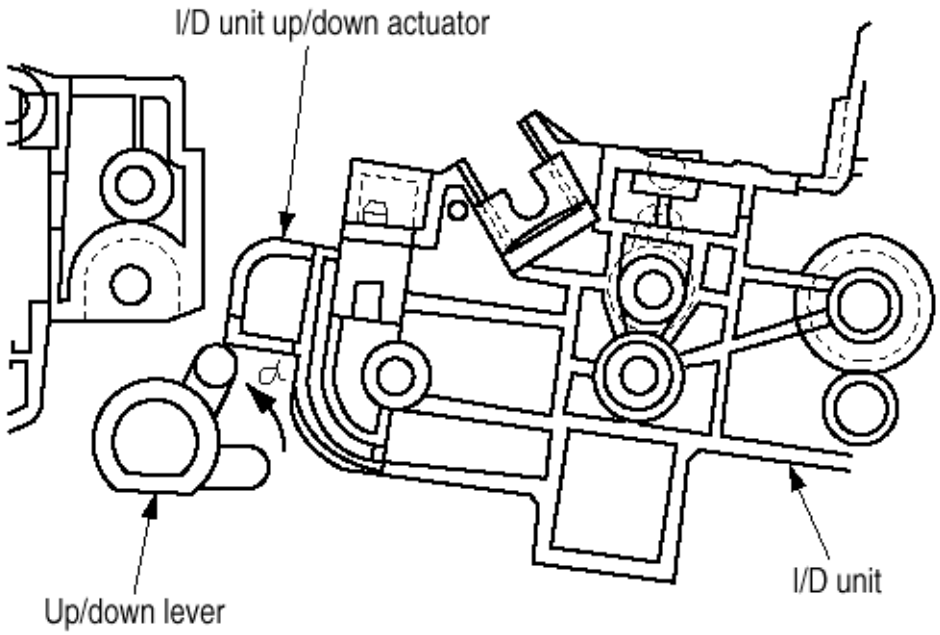


(2) Up/down movement of the image drum unit and rotation of the image drum.
The up/down movement of the image drum unit and the rotation of the image drum are performed by a mechanism shown below. (See Figure 2.6-a). This mechanism is driven by a single pulse motor.

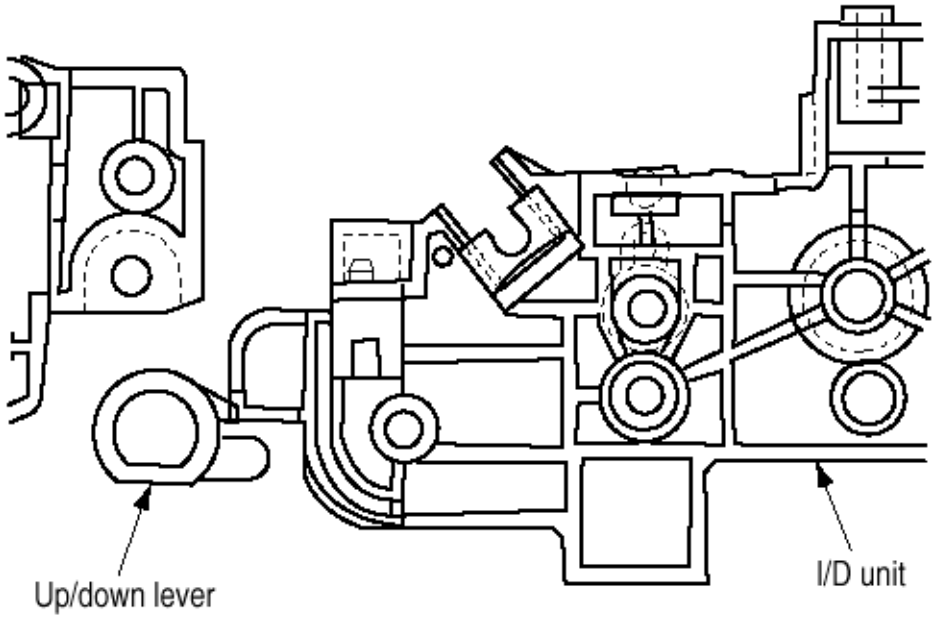
When the pulse motor turns left (Counter-clockwise), the up/down gear turns left (in the direction of "a"), and the up/down lever (see Figure 2.6-b) moves up (in the direction of "a". The up/down lever pushes up the up/down actuator of the image drum unit. The image drum unit moves up as shown in Figure 2.6-b). The image drum rotates freely.



When the pulse motor (see Figure 2.6-a) turns right (Counter-clockwise), the image drum gear turns left (Counter-clockwise) and the up/down gear (one-way gear) is released. The weight of the image drum unit is applied to the up/down lever via the up/down actuator of the image drum unit. The free up/down gear turns right (in the direction "b" in Figure 2.6-a), and the image drum unit goes down until the up/down actuator of the image drum unit is stopped by the up/down lever. (See Figure 2.6-c). During this, the image is transferred onto the running paper.

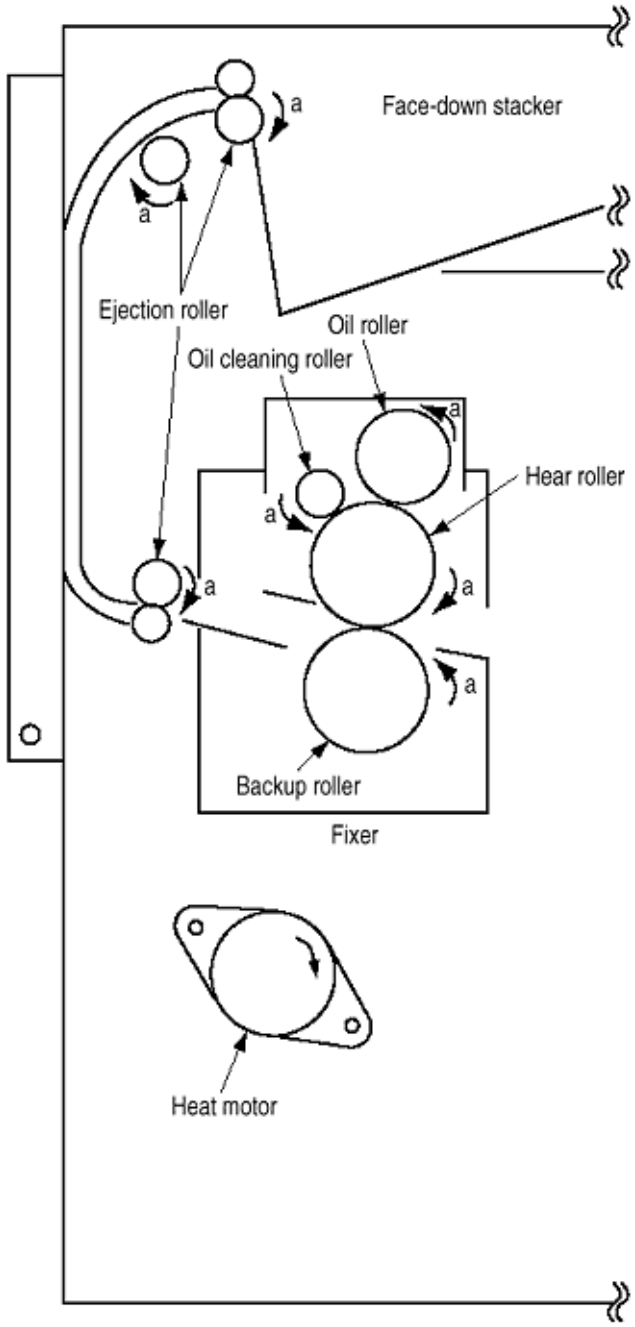


Upward Movement of Image Drum



Downward Movement of Image Drum

(3) Lubrication and cleaning of fixing, ejecting, and heat rollers.



The fixing roller, the ejecting roller, and the heat roller are lubricated and cleaned by a single pulse motor.

When the heat roller pulse motor turns right (in the direction of "a"), the heat roller and the backup roller turn left (in the direction of "a") to fix a toner image onto the paper.

At the same time, three ejection rollers turn right (in the direction of "a") to eject the paper. The oil roller and the oil cleaning roller turn left (in the direction of "a") to supply oil to the surface of the heat roller and clean the surface.

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2.5 Sensors

2.5.1 Paper related sensors

2.5.2 Other sensors

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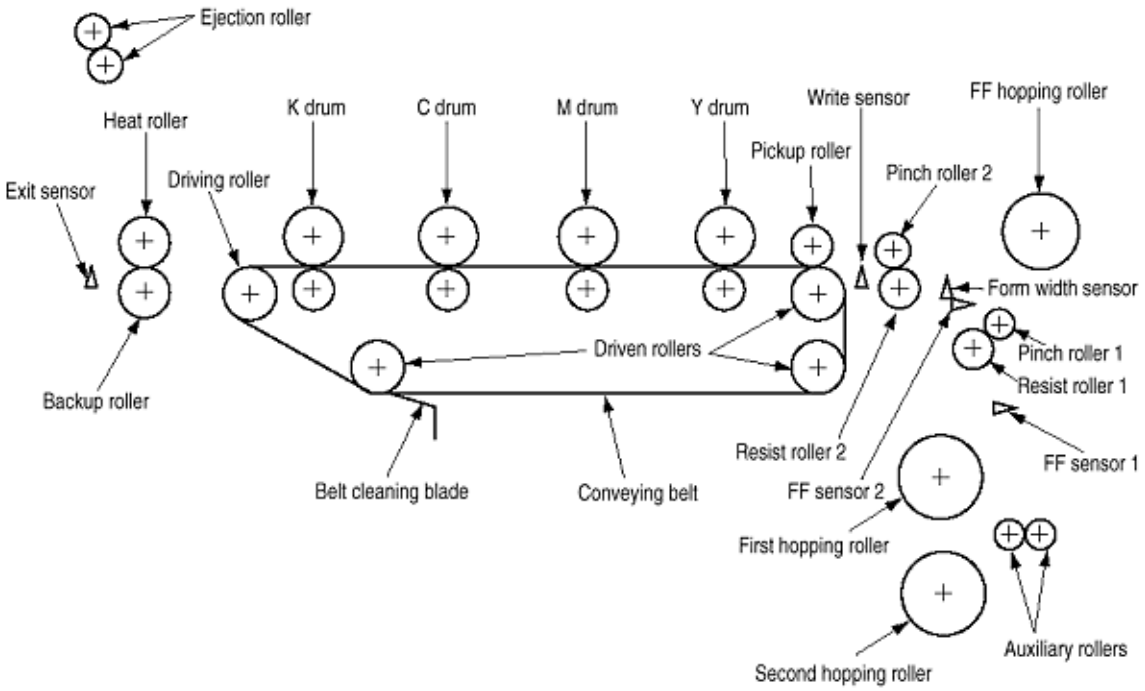
2.5.1 Paper Related Sensors



Sensor	Function	Sensor status
FF sensor 1/2 (Entrance sensor 1/2)	Detects the front edge of an incoming paper and determines timing to change from hopping to conveying.	ON: Front edge detected OFF: Front edge not detected
Write sensor	Detects the front edge of the conveyed paper sheet and determines the length of the paper sheet from elapsed time before the front edge of the paper reaches the sensor.	ON: Form present OFF: Form absent
Ejection sensor	Detects the front and rear edges of a paper sheet and determines whether the paper is ejected.	ON: Form present OFF: Form ejected

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2.5.2 Other sensors

(1) Form end sensor
This sensor checks whether the paper cassette is empty.

(2) Front Feeder form end sensor
This sensor checks whether the front feeder has paper.

(3) Front Feeder home switch
The microswitch checks whether the front feeder stage is in the up or down position.

(4) Image Drum
Image drum up/down sensor (one for each color Y, M, C, K)
Y = Yellow, M = Magenta, C = Cyan, K = Black

(5) Waste toner sensor
This sensor judges whether the waste toner cartridge is full by measuring a time period at which the sensor lever turns on periodically. When the time period falls under a preset value, the system judges that the waste toner cartridge is full and displays the "waste toner full" message.

(6) Resist up/down sensor
This sensor detects the up or down position of the resist roller 2.

(7) Temperature sensor
Refer to 2.7 (Transfer Control according to Environmental Changes).

(8) Humidity sensor
Refer to 2.7 (Transfer Control according to Environmental Changes).

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2.6 Correction of Color Deviation

OKIPAGE 8c is equipped with an array of I/D units which cannot be from generation of color deviations. This mechanic below.

(1) Color deviations to be corrected

1 Color deviation in the X axis (Positional error of the LED head)
2 Diagonal color deviation (Positional error of the LED head)
3 Color deviation in the Y axis (Positional errors of the I/D units and light receivers)

(2) Method of correction Print out the preset color chart, compare the printed color chart by the original color chart, and enter the amount of color deviation of each color from the operator panel or from the host computer. OKIPAGE 8c calculates correction values from the entered values and changes the write timing of each color (cyan, magenta, and yellow) relative to black.

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2.7 Transfer Control according to Environmental Changes

Transfer Control according to Environmental Changes Room Temperatures and Relative Humidities)

OKIPAGE 8c measures the room temperature and humidity. It uses a room temperature sensor and a room humidity sensor. An optimum transfer voltage is calculated, using the obtained environmental conditions. The unit then prints, using the optimum transfer voltage.

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2.8 Form Jam Detection

OKIPAGE 8c checks for a paper jam when the page printer is powered on, and during printing. When a paper jam is found, the OKIPAGE 8c immediately stops the printing process. To recover the printer, open the cover, find and remove the jammed paper, then close the cover.

Error	Conditions
Form feed jam	Three hopping operations are made, but the Form Feed sensor (Entrance) does not turn on within a preset time after the Form Feed sensor 1 turns on.
Convey jam	The ejection sensor does not turn on within a preset time period after the Write sensor detects the front end of paper.
Ejection jam	The eject sensor detected the front edge of the paper, but does not detect the rear edge of the paper within a preset time period.
Form size error	The form size (obtained by measuring the time period between the rear edge of the paper passes by the Form Feed sensor 2 after the front edge of the paper passed the Write sensor) is longer by 45mm than the specified form length.

* To obtain the form size, measure the time interval from when the front edge of the paper passes the Write Sensor until the rear edge of the paper passes the Form Feed Sensor 2. A Form Size Error occurs when the specified length is exceeded by 45 mm.

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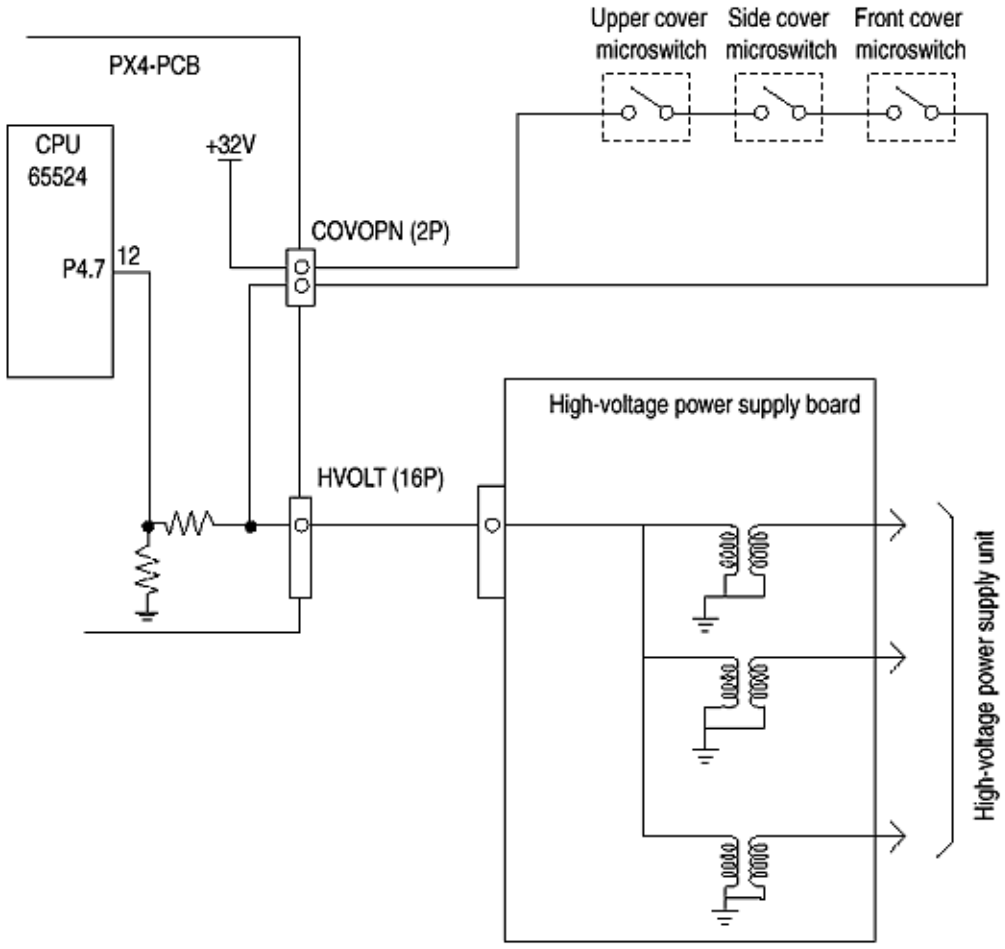
2.9 Cover Opening

When the upper, side, or front cover of the OKIPAGE 8c is opened, the Cover open microswitch turns off, the voltage of 32V to the high-voltage power supply is shit off, and all high-voltage outputs are shut off. At the same time, the CPU receives a signal (CVOPN), (indicating the status of the microswitch), and performs the cover open process.



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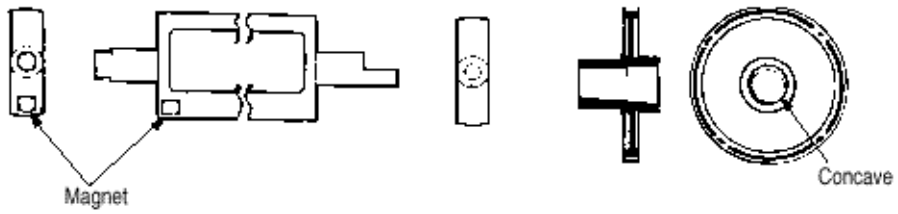
2.10 Toner Lower Detection

- **Composition**

The device consists of the stirring gear (which rotates at a constant rate), the stirring bar, and the magnet on the stirring bar. The stirring bar rotates by engaging with the concave section in the stirring gear.



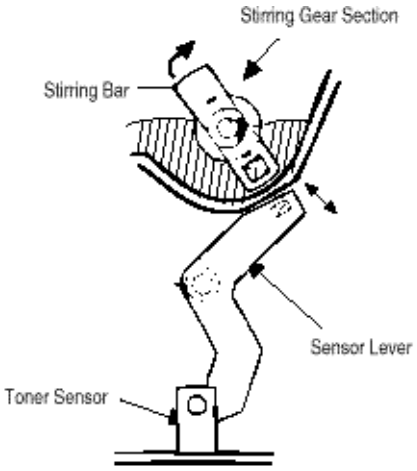
Stirring Bar Stirring Gear

- **Operation**

Toner Low is detected by monitoring the time interval between engagement of the magnet set on the sensor lever and the magnet on the stirring bar.

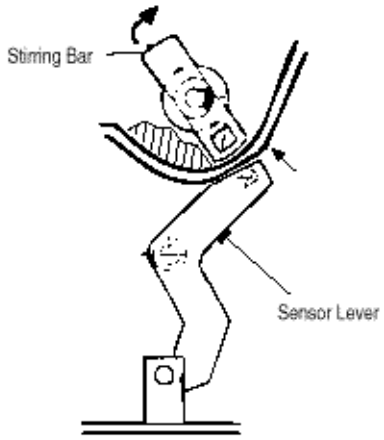
OPERATION during toner full state

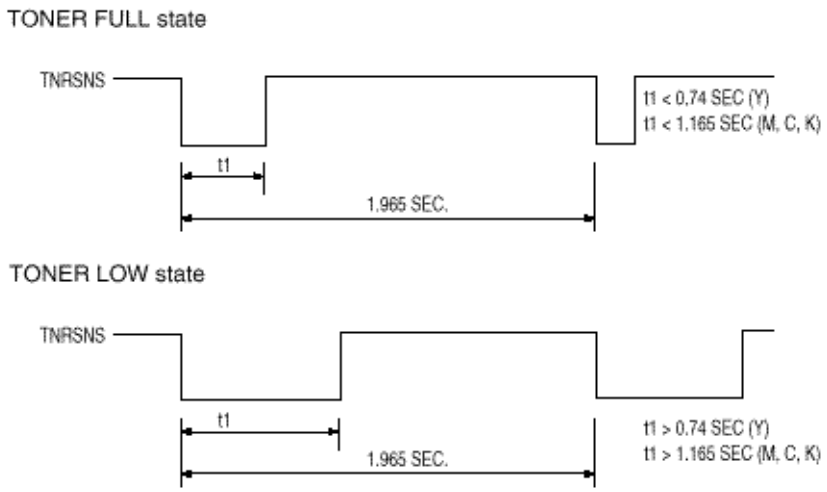
- The stirring bar rotates by interlocking with the stirring gear.
- When the magnet on the stirring bar reaches its maximum height, the other end of the bar is dipped in the toner. The stirring bar is pushed by the stirring gear.



Operation during toner low state

- When the stirring bar reaches the maximum height, the lack of toner provides no resistance on the other end. The bar falls to the minimum height, due to its own weight.
- The time length of the encounter (between the stirring bar magnet and the sensor lever magnet), counter with the magnet of the sensor lever becomes long. By monitoring this time interval, toner low is detected.





- When the toner low state is detected 2 times consecutively, Toner Low is established.
- When the toner full state is detected 2 times consecutively, Toner Low is canceled.
- When there is no change with the toner sensor for 2 cycles (1.965 sec. x 2) or more, the Toner Sensor Alarm is activated.
- The toner sensor is not monitored while the drum motor is in halt.

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2.11 Page Size Detection

The four tab pieces are driven according to the setting position of the paper guide (through the cam interlocked with the paper guide of the paper cassette).

When the paper cassette is inserted into the printer, the position of the tab pieces is detected by a microswitch, recognizing the paper size.

STATE OF MICROSWITCHES

SW1	SW2	SW3	SW4	Paper size
0	1	1	1	Letter
0	1	0	1	Executive
0	0	1	1	A4
1	1	1	0	Legal 14
1	0	1	1	Legal 13
1	1	0	1	B5
1	1	0	0	A5
1	0	0	1	A6

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2.12 Power-on Processing

2.12.1 Self-diagnostic test

(1) Initial test

The following check are automatically performed when the printer is power on:

(a) ROM check
(b) RAM check
(c) EEPROM check
(d) Flash ROM check

(2) ROM check

(a) Checks ROM by comparing the sum of bits in the received data unit by the number of bits in the transferred data unit.

(3) RAM check

(a) Checks RAM by writing a preset data patter in RAM, reading the contents of RAM, and comparing the data read from RAM by the data written in RAM. (Write-read test).
(b) Checks optional RAM (if it is installed).
(c) Checks resident RAM by exclusively O Ring high and low addresses (to prepare 16-bit data units), writing a preset 16-bit data patter in RAM, reading the contents of RAM, and comparing the data read from RAM by the data written in RAM. Checks optional RAM by writing and reading 32-bit fixed patterns ("5555h" and "aaaah") in optional RAM.

(4) EEPROM check

(a) Checks identification numbers stored in the fixed addresses of EEPROM.
(b) Checks the contents of the menu area (by control firmware) and the engine area (by engine firmware).

(5) Flash ROM check

Checks Flash ROM by writing a present data pattern in Flash ROM, reading the contents of Flash ROM, and comparing the data read from Flash ROM by the data written in Flash ROM. (Write-read test).

(6) Option check unit

Checks whether the optional units (such as the second tray, and PS SIMM) have been installed before entering the operation mode.

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3.0 Parts Replacement

3.1 Precautions for Parts Replacement

3.2 Parts Layout

3.3 How to Change Parts

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3.1 Precautions for Parts Replacement

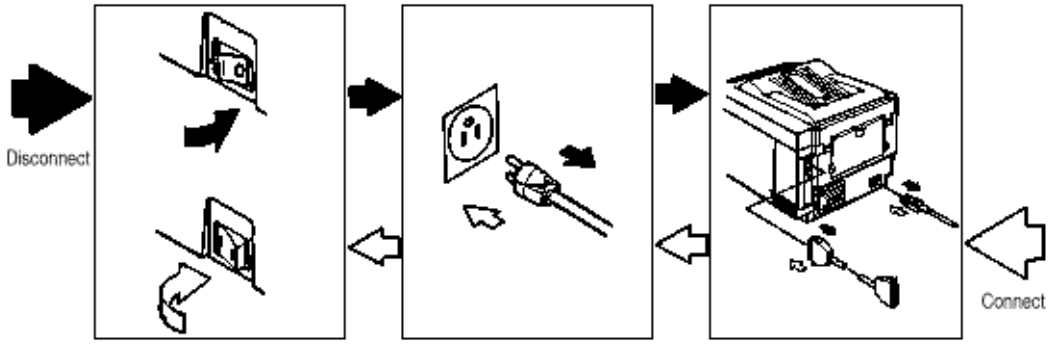
(1) Before starting parts replacement, remove the AC cable and interface cable.

(a) Removing the AC cable

i) Turn off ("o") the power switch of the printer.
ii) Disconnect the AC inlet plug of the AC cable from the AC receptacle.
iii) Disconnect the AC cable and interface cable from the printer.

(b) Reconnecting the AC cable

i) Connect the AC cable and interface cable to the printer.
ii) Connect the AC inlet plug to the AC receptacle.
iii) Turn on ("I") the power switch of the printer.



(2) Do not disassemble the printer, if operating normally.

(3) Do not remove unnecessary parts: try to keep disassembly to a minimum.

(4) Use specified service tools.

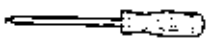
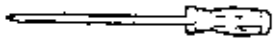
(5) When disassembling, follow the determined sequence. Otherwise, parts may be damaged.

(6) Since screws, collars and other small parts are likely to be lost, they should temporarily be attached to the original positions.

(7) When handling ICs such as microprocessors, ROM and RAM, and circuit boards, follow standard electrostatic procedures.

(8) Do not place printed circuit boards directly on the equipment or floor.

No.	Service Tools	Tools	Qty	Place of Use	Remarks

1		No. 1-100 Philips screwdriver	1	2-2.5 mm screws	
2		No. 2-200 Philips screwdriver, Magnetized	1	3-5 mm screws	
3		No. 3-100 screwdriver	1		
4		No. 5-200 screwdriver	1		
5		Digital multimeter	1		
6		Pliers	1		
7		Handy cleaner	1		
8		LED Head cleaner P/N 51802901	1	Cleans LED head	

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3.2 Parts Layout

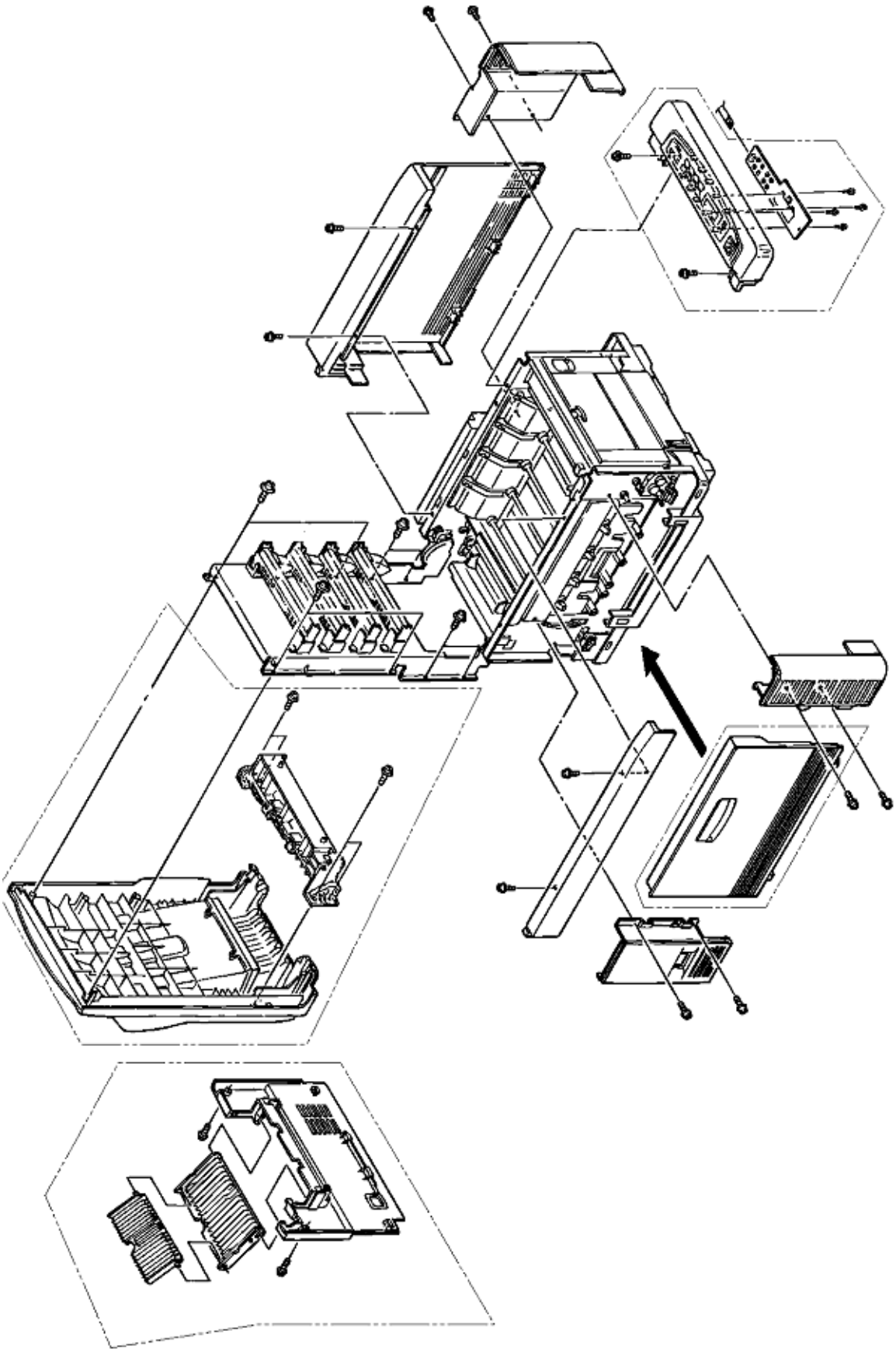

Figure 3-1, Covers

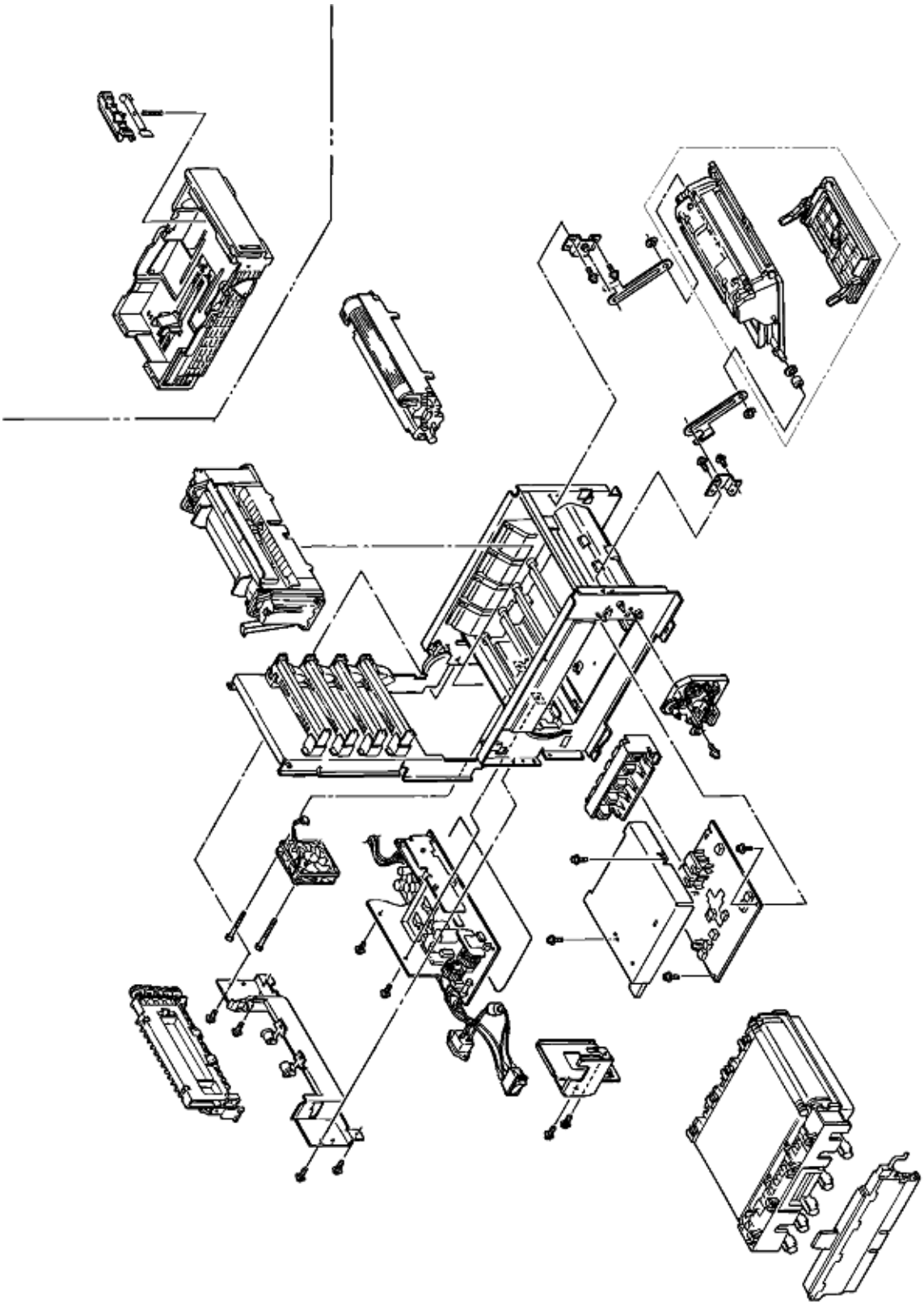

Figure 3-2, Print Assemblies

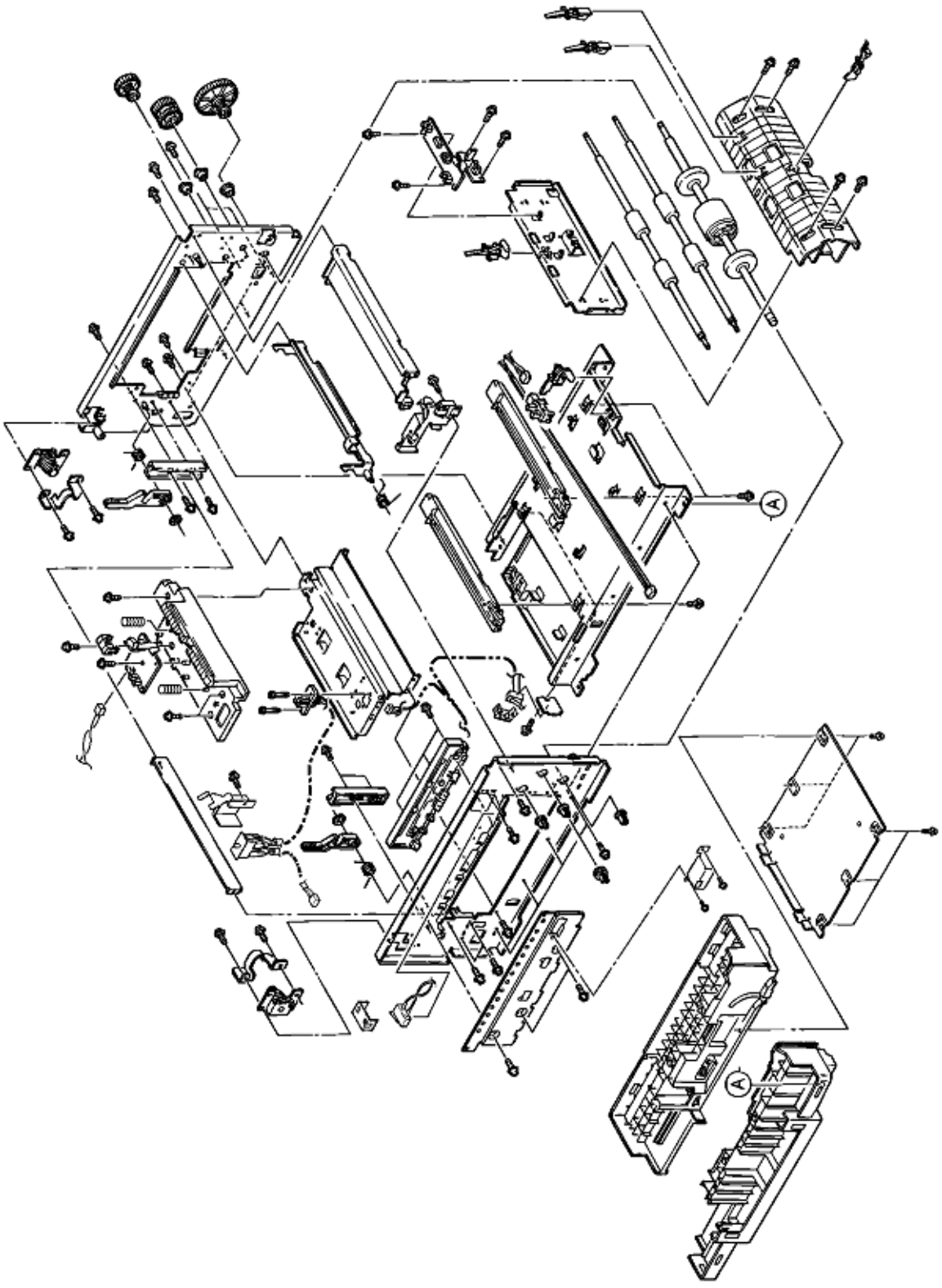

Figure 3-3, Base Assemblies

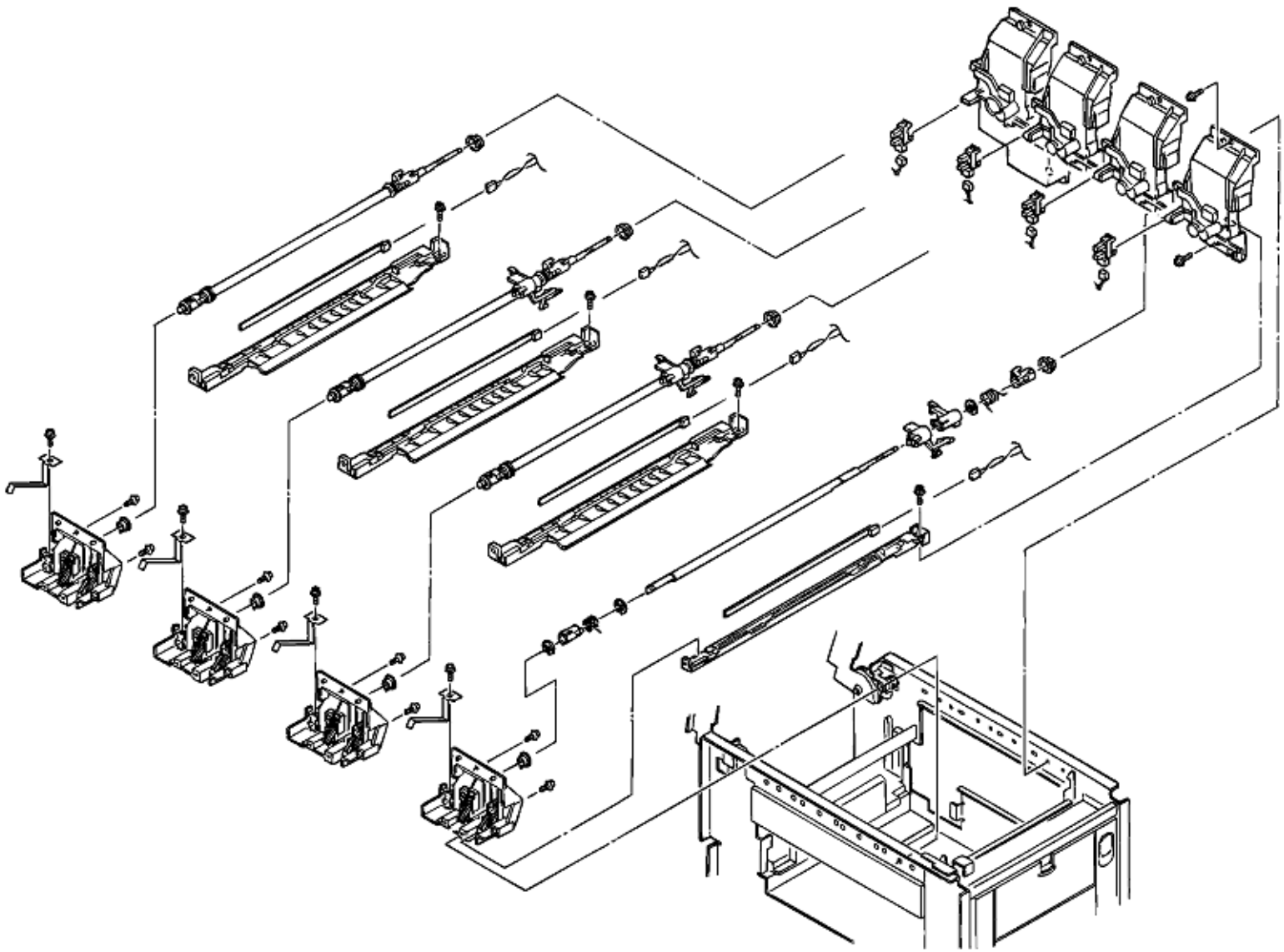

Figure 3-4, Contact Assemblies

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3.3 How to Change Parts

This section explains how to change parts and assemblies appearing in the disassembly diagram below.

3.3.1 Cover Assy Rear
3.3.2 Motor Fan (80-25)
3.3.3 Paper Eject Assy
3.3.4 Cover Assy Stacker Guide Eject FD Assy
3.3.5 Frame Assy Upper
3.3.6 Plate Support Assy
3.3.7 Limiter 2Way (L), (R) / Plate Guide (L), (R)
3.3.8 Cover
3.3.9 PCB Assy: PCR
3.3.10 Motor Fan (CU)
3.3.11 PXF PCB/PX4 PCB
3.3.12 Gear Heat Assy
3.3.13 Main Motor (A), (B) Assy
3.3.14 Gear On-way (Z30)
3.3.15 Motor Assy BT
3.3.16 Power Supply Unit, Holder Inlet, Sheet Insulation
3.3.17 Sensor Assy Box Toner
3.3.18 Square-shaped Connector
3.3.19 Hopping Motor
3.3.20 Gear One-Way
3.3.21 Feeder Unit Front
3.3.22 Manual Feed Hopper Assy
3.3.23 Guide Paper Input Assy
3.3.24 Lever Input Sensor
3.3.25 Roller Registration, Roller Assy Hopping
3.3.26 Roller Hopping
3.3.27 PXU PCB/PXM PCB, Lever Regist Sensor
3.3.28 Paper End Lever
3.3.29 PCO PCB (Operator Panel)

3.3.30 Holder Gear Toner Assy

3.3.31 Plate Latch Lever (FD), Spring Latch Lever (FD)

3.3.32 Belt Cassette Assy

3.3.33 High Voltage Power Supply Unit, Bracket HV

3.3.34 Erase Bracket Assy, Eraser Bracket

3.3.35 Shaft Link

3.3.36 Contact (BL-R) Assy, Contact (CL-R) Assy

3.3.37 Contact (BL-L) Assy, Contact (CL-L) Assy

3.3.38 Contact SB Assy

3.3.39 PXC PCB

3.3.40 Heat Unit Assy

3.3.41 Oil Roller Assy

3.3.42 Lever Lock Heat (L) / (R), Guide Side Heat, Spring Lock

3.3.43 PXL PCB

3.3.44 Heat Unit Guide Assy

3.3.45 Holder LED Assy, LED Head

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3.3.1 Cover Assy Rear

Remove the 2 screws (1) then lift the cover assy rear (2) a little bit, then remove the cover assy rear by releasing the two claws.

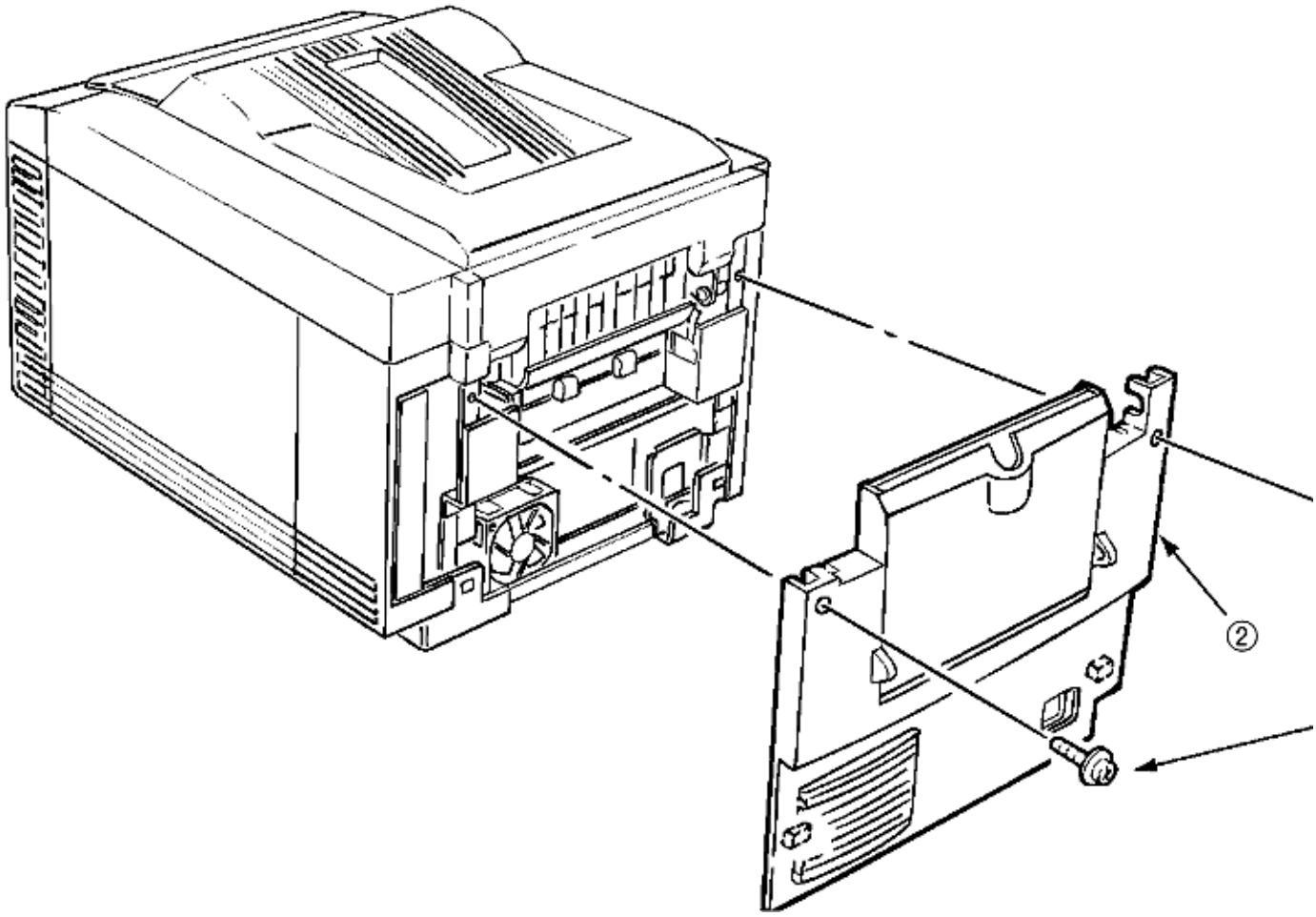

Figure 3.3.1 Cover Assy Rear

40315201 Cover Assy Rear - RSPL

Includes:

40098401 Cover Rear
40187501 Stacker Face-up
40187601 Support Stacker

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3.3.2 Motor-Fan (80-25)

1. Remove the cover assy rear (See 3.3.1)
2. Remove the two screws (1).
3. Detach the fan motor (2) from the guide with its right side lifted then draw the fan motor.
4. Detach the cable (3) then remove the fan motor (3).

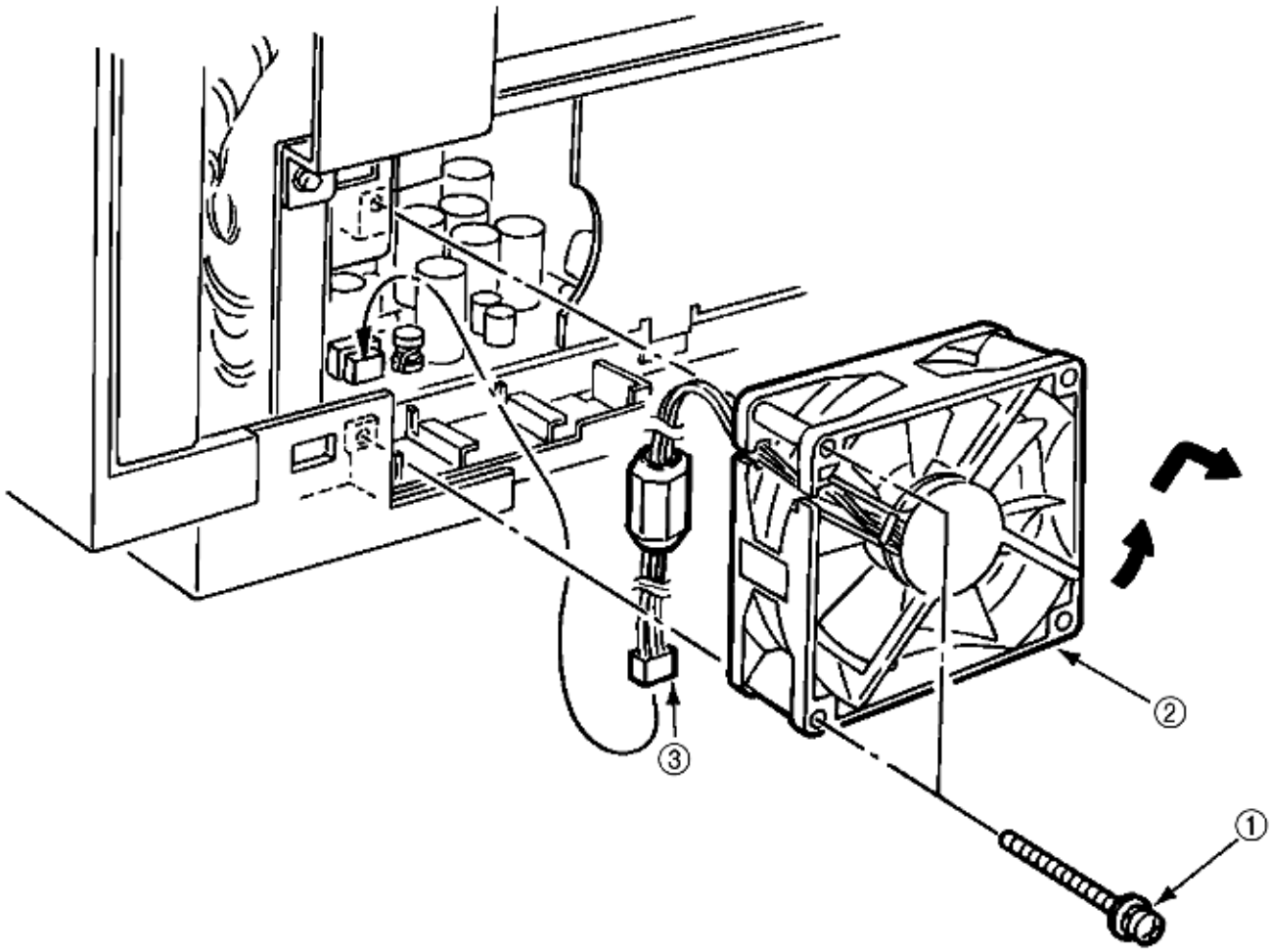

Figure 3.3.2 Fan Motor (80-25)

40255201	**Fan Motor (80-25)**	**RSPL**

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3.3.3 Paper Eject Assy

The paper eject assy includes the frame: eject assy and the guide: paper eject assy.

1. Remove the cover assy rear (See 3.3.1)
2. Open the top cover.
3. Unscrew 4 screws (1) then remove the frame eject assy (2).
4. Remove the guide paper eject assy (3) by releasing the lock of one claw.

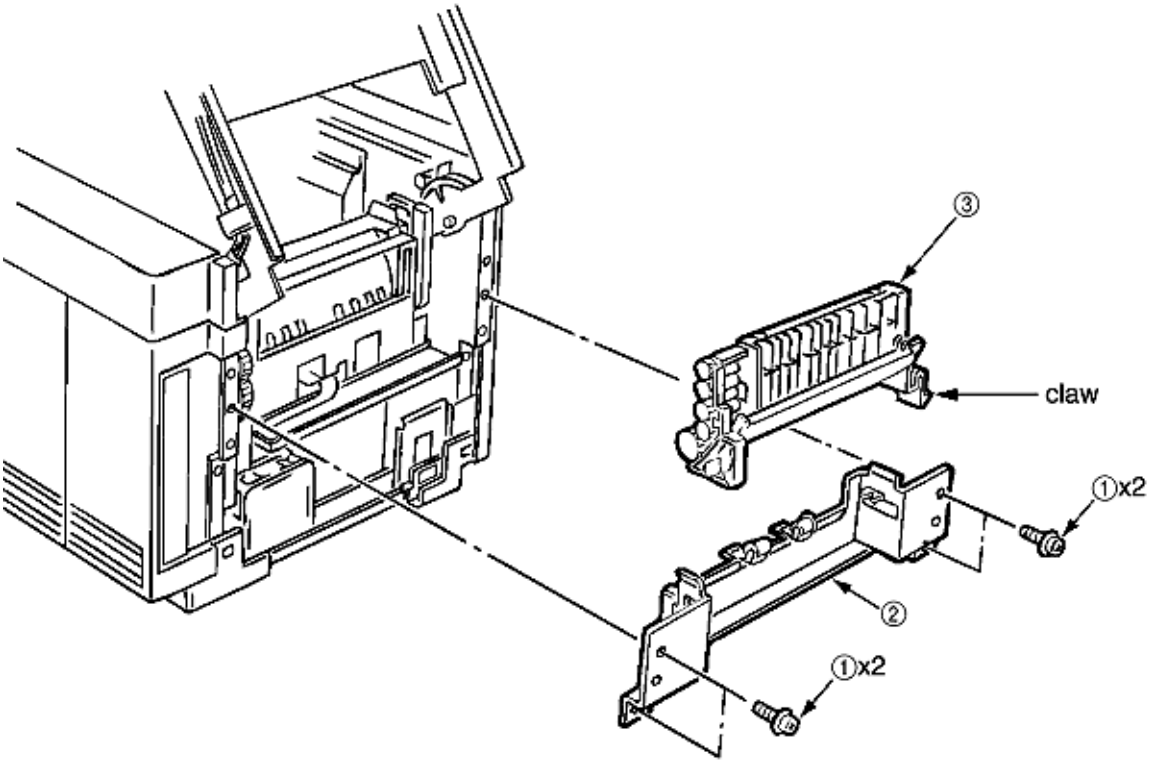

Figure 3.3.3 Paper Eject Assy

40303501	**Frame: Eject Assy**	**RSPL**
40303401	**Guide: Paper Eject Assy**	**RSPL**

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3.3.4 Cover Assy Stacker, Guide Eject FD Assy

1. Remove the cover assy rear. (See 3.3.1)
2. Release the cable from the cable clamp (1) by opening the clamp.
3. Unscrew 8 screws (2) then remove the cover assy stacker (3).
4. Unscrew 4 screws (4) then remove the guide eject FD assy (5).

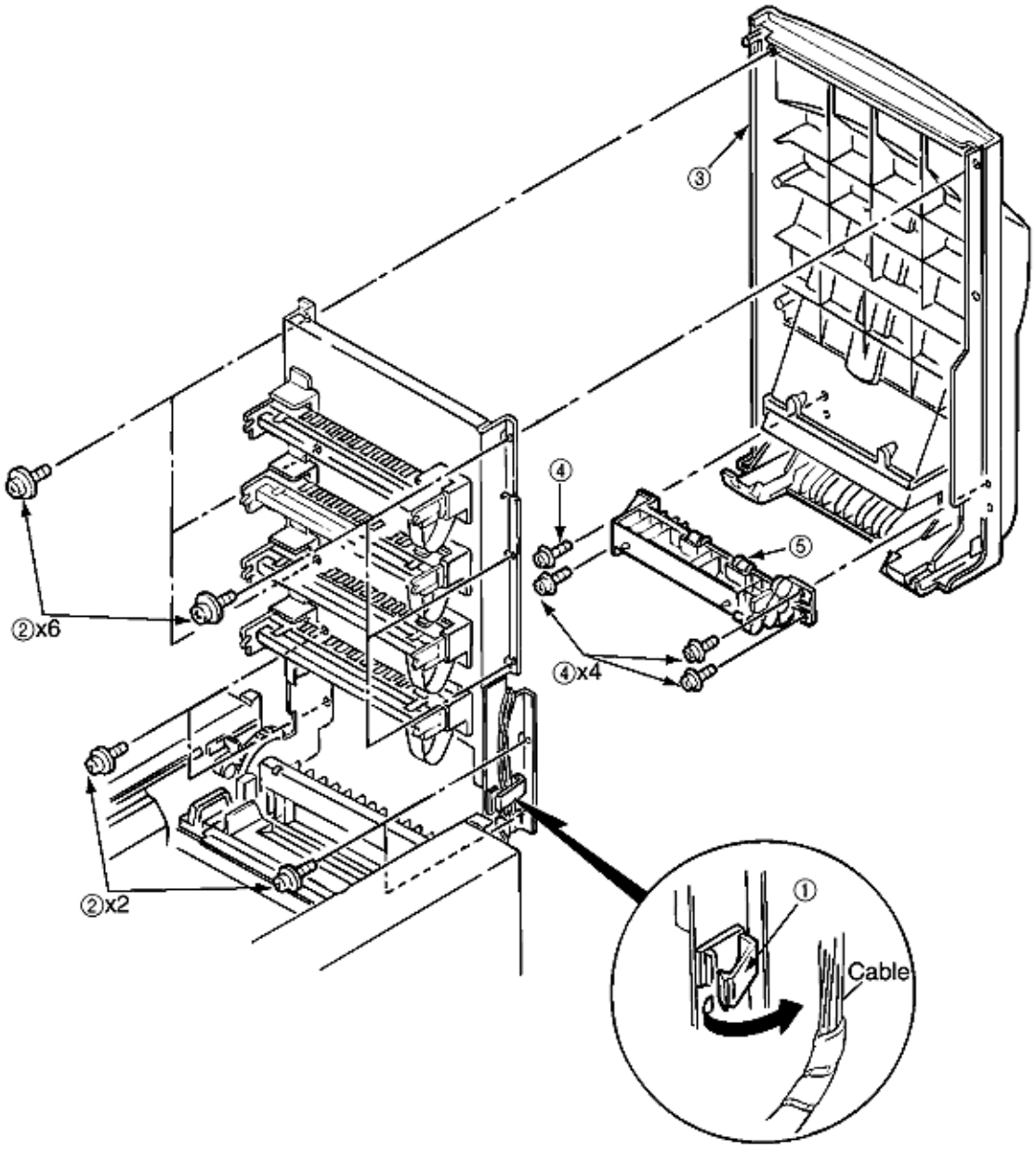

Figure 3.3.4 Cover Assy Stacker, Guide Eject FD Assy

40314801 Cover: Assy Stacker RSPL

Includes:

40303601 Guide - Eject - FD - Assy RSPL
40449901 Cover - Sub - Assy - Stacker RSPL

Item 2 - 50318701 PP4083-5670P001 Screw RSPL

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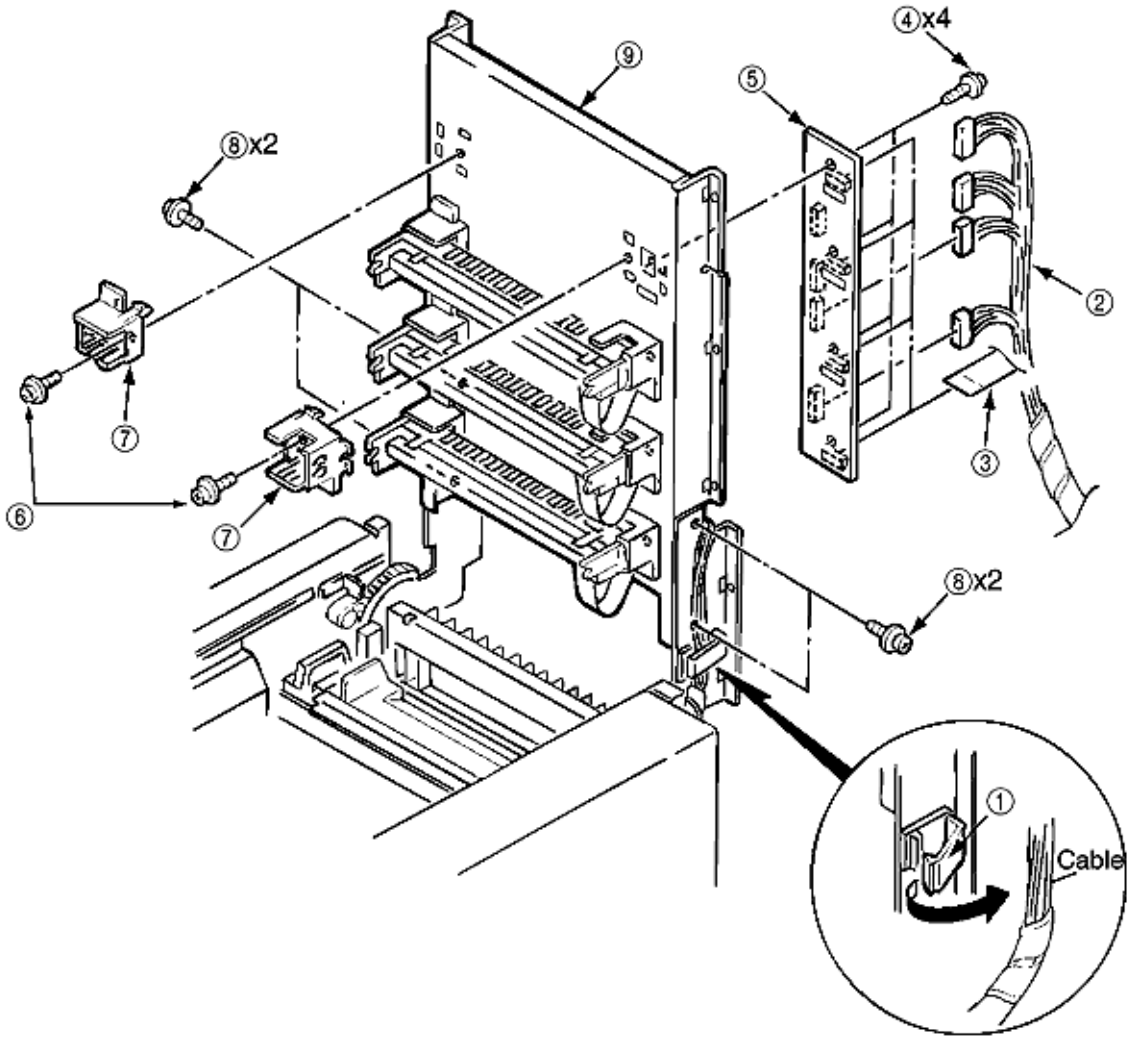
3.3.5 Upper Frame Assy

1. Remove the cover assy rear. (See 3.3.1.)
2. Remove the cover assy stacker. (See 3.3.4.)
3. Remove the holder LED assy. (See 3.3.45.)
4. Detach the cable from the cable clamp (1) by releasing its lock.
5. Remove connections of 4 connector cables (2) and 4 cables (3).
6. Unscrew 4 screws 4 then remove the PD6 PCB (5).
7. Unscrew 2 screw 6 then remove Guide Holder (7) by releasing the clamp of the claw.
8. Unscrew 4 screws 8 then remove the Upper Frame Assy (9).



Cable is pushed against sharp edge on hole down to LED head.

Figure 3.3.5 Upper Frame Assy

(9)	**40410701**	**Frame - Upper Assembly**	**RSPL**
(7)	**40187801**	**Guide Holder**	**RSPL**

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3.3.6 Plate Support Assemblies

The plate support assemblies are provided right and left. The method of those replacements is the same.

1. Remove the heat unit assy. (See 3.3.40)
2. Remove the cover assy rear. (See 3.3.1)
3. Remove the cover assy stacker. (See 3.3.4)
4. Remove the frame assy upper. (See 3.3.5)
5. Detach the cable from the flat cable clip (1) by releasing the lock.
6. Remove the 2 screws (2) then remove the plate support assy (3). Be careful not to lose the spring 4 which is removed with the plate support assy (3).)

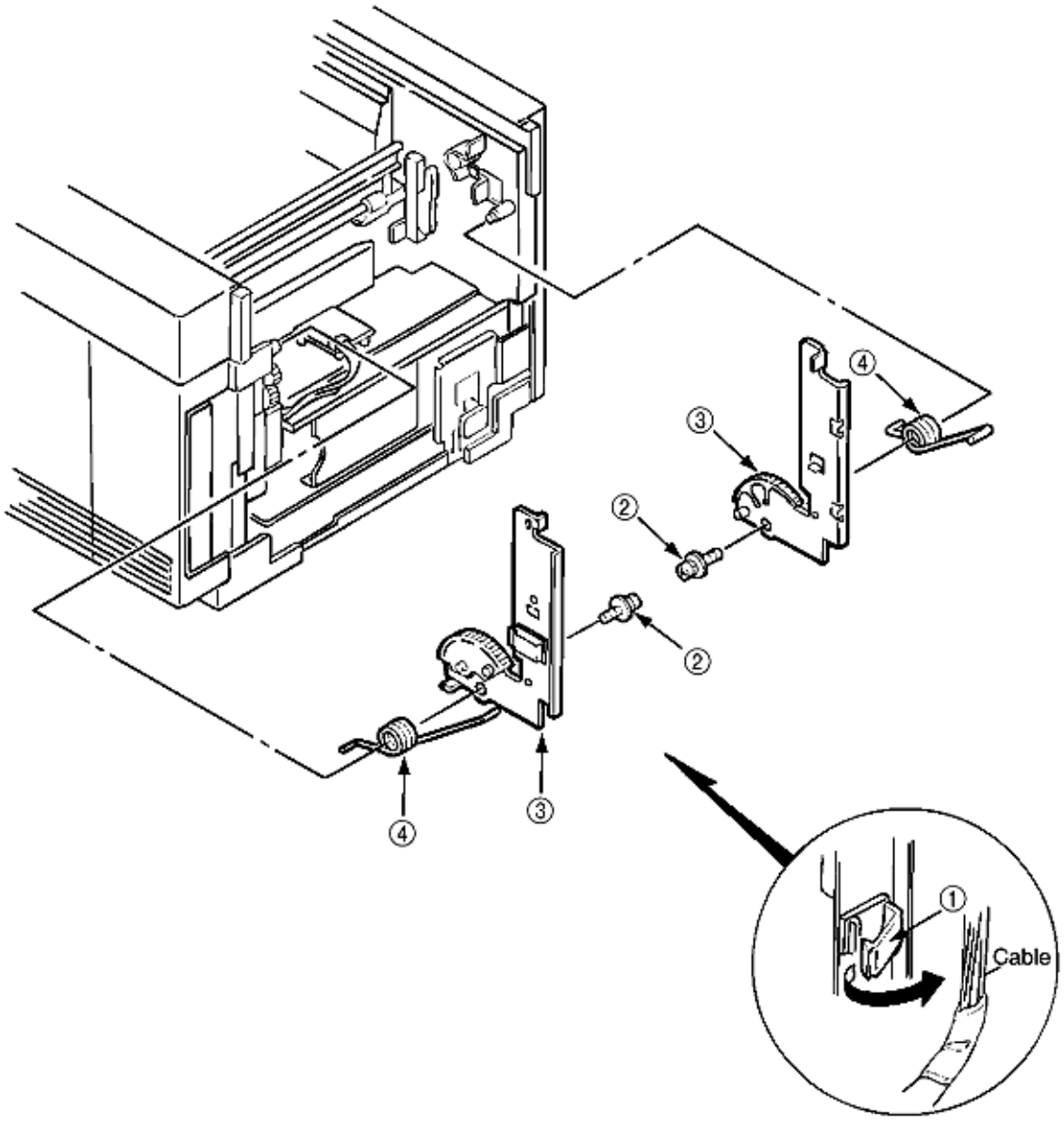

Figure 3.3.6 Plate Support Assy

(3) A	**40449201**	**Plate - Support - (R) - Assy**	**RSPL**
(4) A	**40218301**	**Torsion Spring (B)**	**RSPL**
(1)	**56636301**	**LP-6665-1 - Flat - Cable - Clip**	**RSPL**
(36)	**40449301**	**Plate - Support - L - Assy**	**RSPL**
(46)	**40197401**	**Torsion - Spring (A)**	**RSPL**

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3.3.7 Limiter 2way (L), (R) / Plate Guide (L), (R)

1. Remove the plate support assy (L) and (R). (See 3.3.6)
2. Unscrew 2 screws (1) then remove the limiter 2way (L) (2) and the plate guide (L) (3).
3. Unscrew 2 screws (4) then remove limiter 2way (R) (5) and the plate guide (R) (6).

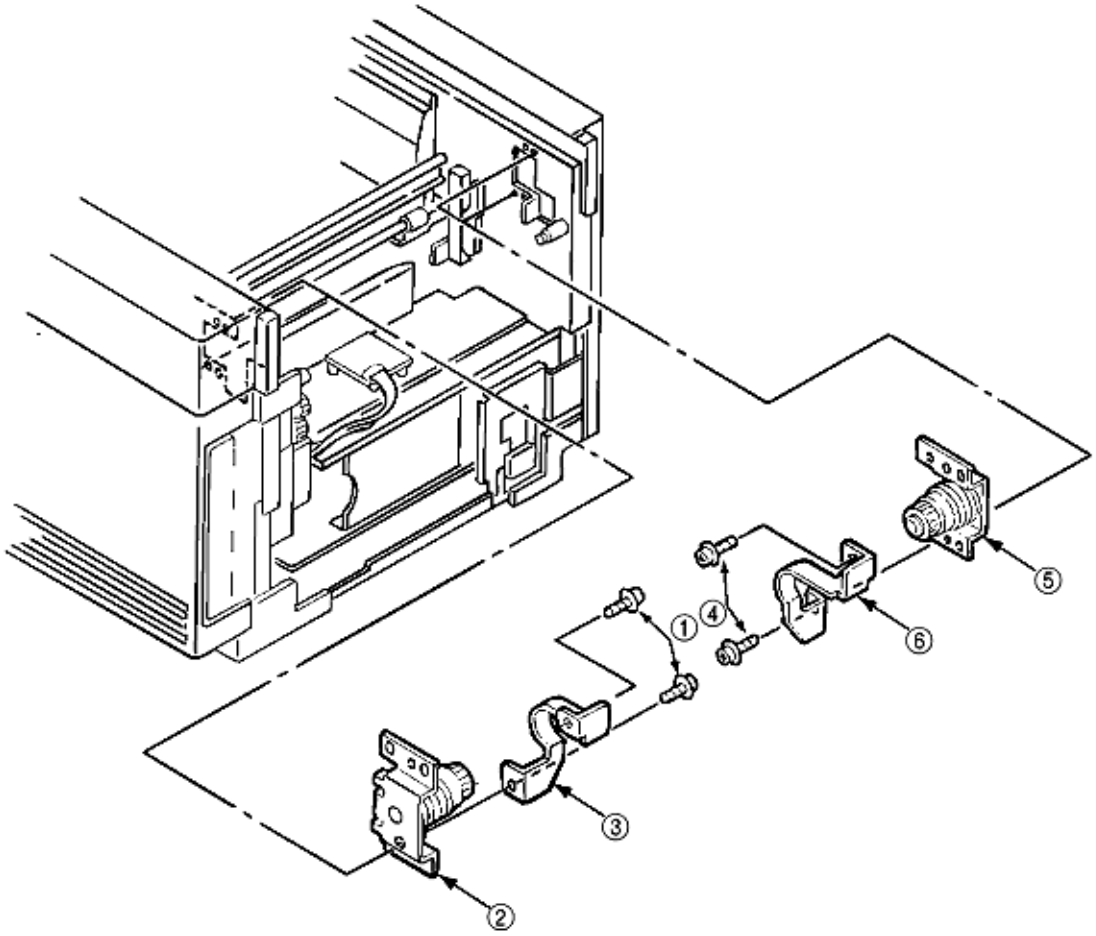

Figure 3.3.7 Limiter 2way (L), (R) / Plate guide (L) , (R)

40383701	**Limiter - 2 way (L)**	**RSPL**	**8-3, Item 15**
40335001	**Plate-Guard (L)**	**RSPL**	**8-3, Item 17**
40383801	**Limiter - 2 way (R)**	**RSPL**	**8-3, Item 16**
40335101	**Plate - Guard (R)**	**RSPL**	**8-3, Item 18**

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3.3.8 Cover

Describes the method of removing the cover assy side (L)/(R), cover assy OP panel, cover front (L)/(R) and the cover rear (L).

1. Remove the cover assy rear. (See 3.3.1)

2. Remove the cover assy stacker. (See 3.3.4)

3. Remove the 2 screws (1) then remove the frame side (L) (2).

4. Remove the 2 screws (3) then release the lock of the claw with the cover assy side (R) (4) lifted a little bit, then remove the cover assy side (R).

5. Detach the operator panel cable (5) from the PCM PCB.

6. Open the FDR unit front in the arrow direction.

7. Remove the 2 screws (6) then remove the cover assy OP panel (7).

8. Remove the 2 screws (8), with the cover front (R) (9) pushed up, then release the lock of the claw, then remove the cover front (R).

9. Remove the 2 screws (10) then remove the cover front (L) (11).

10. Remove the 2 screws (12) then remove the cover rear (L) (13).

11. Pull off the film (15) glued on the cassette guide.

12. Release the engagement with the guide by lifting the cover assy side (L) (14), then remove the cover assy side (L).

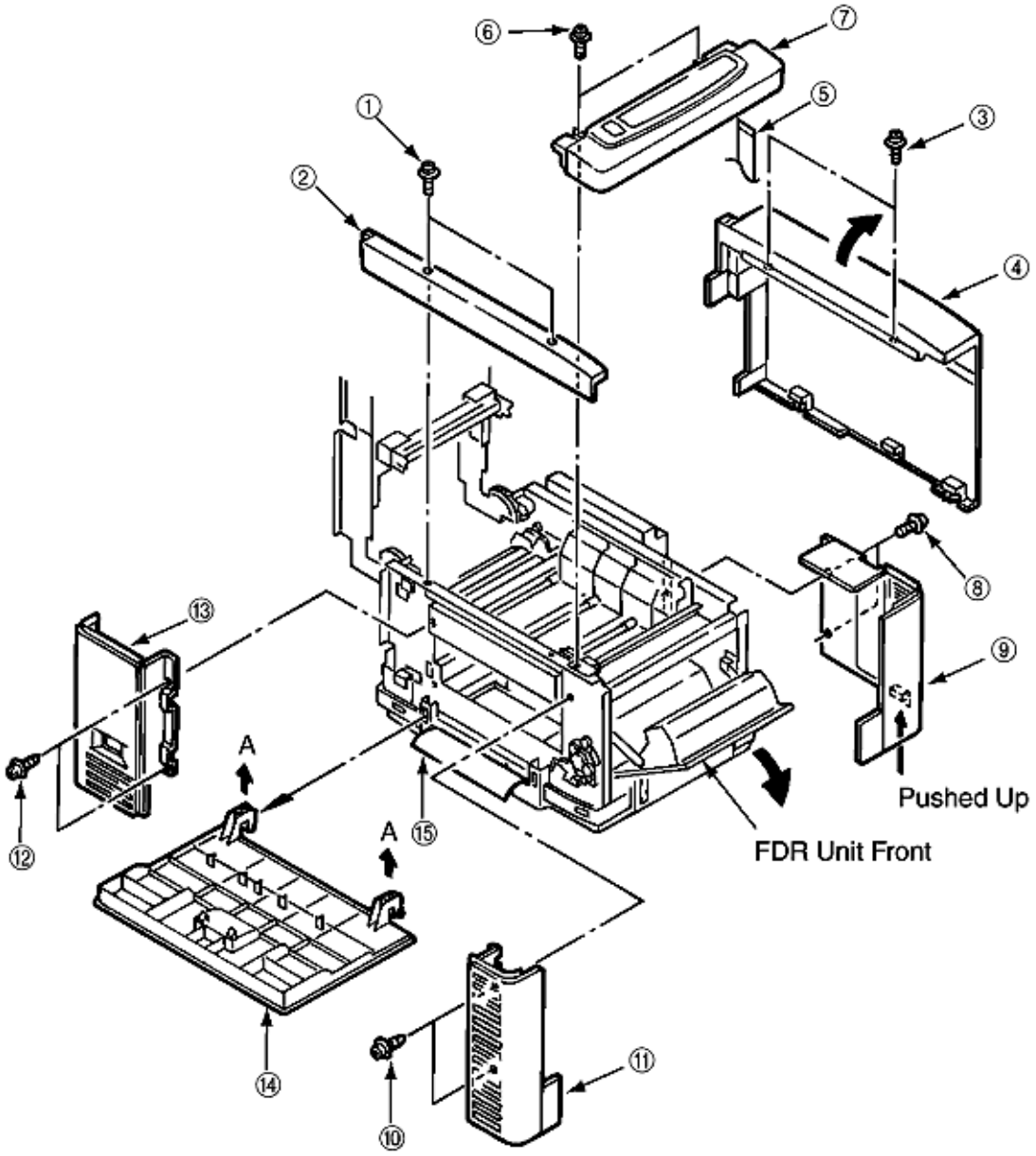

Figure 3.3.8 Cover

(2)	40195601	Frame - Side (L)	RSPL	8-1, # 16
(4)	40315001	Cover - Assy - Side (R)	RSPL	8-1, # 6
(7)	40314901	Cover - Assy - Op - Panel	RSPL	8-1, # 10
	(7) Includes:			
	40492601	Cover - Sub - Assy. Op - Panel	RSPL	8-1, #11
	40387201	PCO PCB	RSPL	8-1, #18
	56636205	2381005P005 *1		
(9)	40098301	Cover - Front (R)	RSPL	8-1, #9
(11)	40098201	Cover - Front (L)	RSPL	8-1, #12
(13)	40195701	Cover - Rear (L)	RSPL	8-1, #17
(15)	40728701	Foam - Seal (Cover)	RSPL	8-1, #24
(14)		Cover - Side (L)	RSPL	8-1, #14

***1**		**Cable: HCUS (1.25) - 6F-440-10S6(B) M1 (20624)**	**RSPL**	**8-1, #19**
***2**	**Includes**	**Cover - Side (R) Frame - Side (R)**		

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3.3.9 PCR PCB Assy

1. Open the top cover.
2. Remove the 2 screws (1) and release the lock of the claw by lifting the cover assy side (R) (2) a little bit, then remove the cover assy side (R).
3. Remove the 2 screws (8) to remove the plate shield (CU) (9).
4. Remove the 3 screws (3) to remove the plate sealed (4).
5. Detach the operator panel cable (5) from the PCR PCB. PCR PCB requires ten (10) screws for removal.
6. Remove the 7 screws (6) to remove the PCR PCB (7).

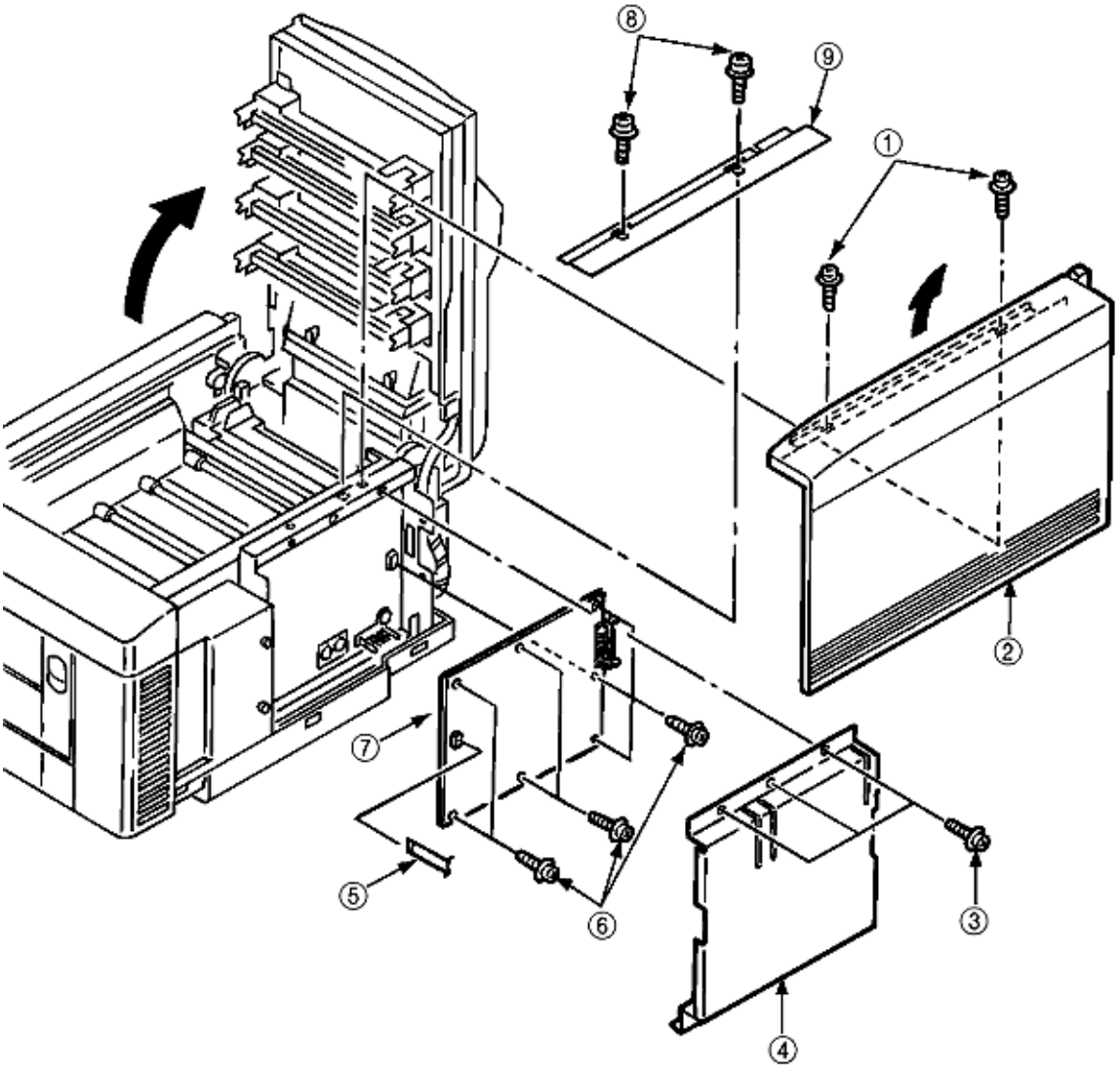

Figure 3.3.9 PCB Assy: PCM

(2)	**40315001**	**Cover - Assy - Side (R)**	**RSPL**	**8-1, #6**
	Includes:	**Cover - Side (R)** **Frame - Side (R)**		
(9)	**40704901**	**Plate - Shield (CU)**	**RSPL**	**8-5, #43**
(4)	**40376901**	**Plate - Sealed**	**RSPL**	**8-5, #16**
(7)	**40604802**	**PCR - PCB**	**RSPL**	**8-5, #15**

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3.3.10 Motor Fan

1. Open the top cover.
2. Remove the cover assy side (R), frame side (L), cover assy OP panel and the cover front (R). (See 3.3.8)
3. Unplug the cable (1) and unscrew 2 screws (2), 2 collars (4) and then remove the motor fan (3).

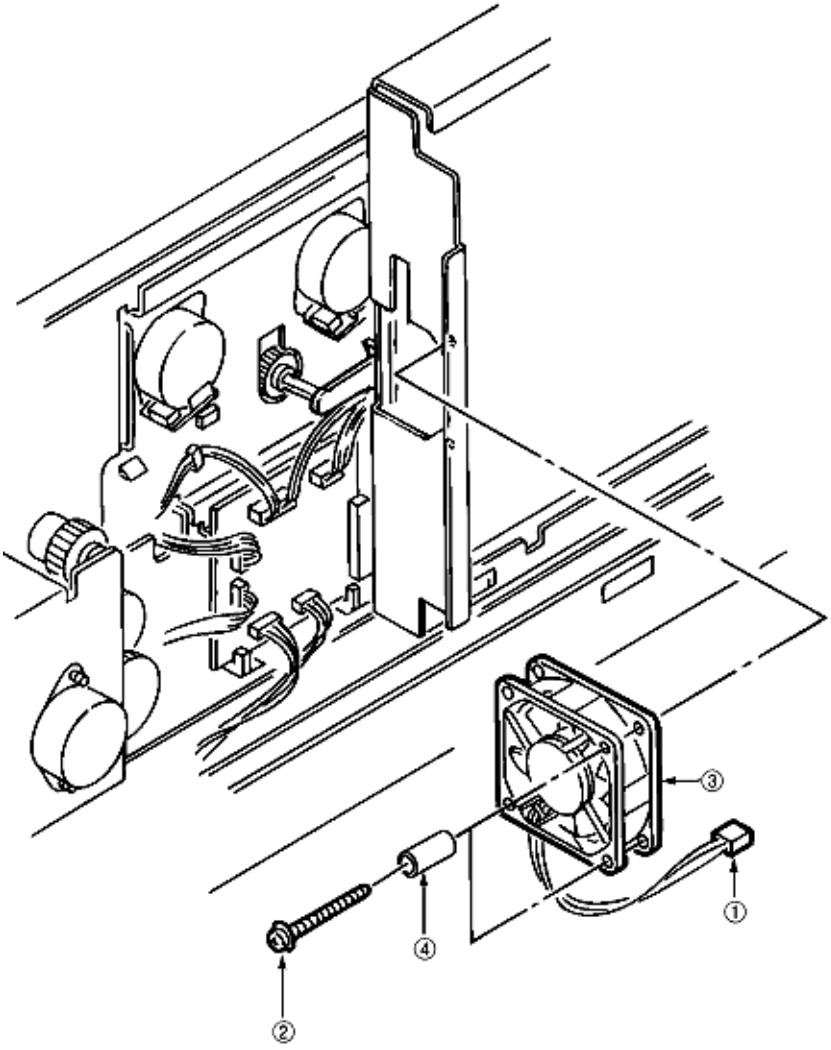

Figure 3.3.10 Motor Fan

(2)	54122925	PSW2W3-253	Screw	RSPL	8-5, #18
(3)	40197101		Motor, Fan	RSPL	8-5, #17

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3.3.11 PXF PCB/PX4 PCB

Since the PXF PCB and PX4 PCB are connected with each other via the connector, remove them at the same time.
1. Remove the PCB assy : PCM. (See 3.3.9)
2. Unscrew 5 screws 1 then remove the cover CU2.
3. Unplug all the cables 5 connected to the PXF PCB 3 and PX4 PCB 4.
4. Unscrew 5 screws 6 then remove the PXF PCB3 and PX4 PCB4 at the same time.

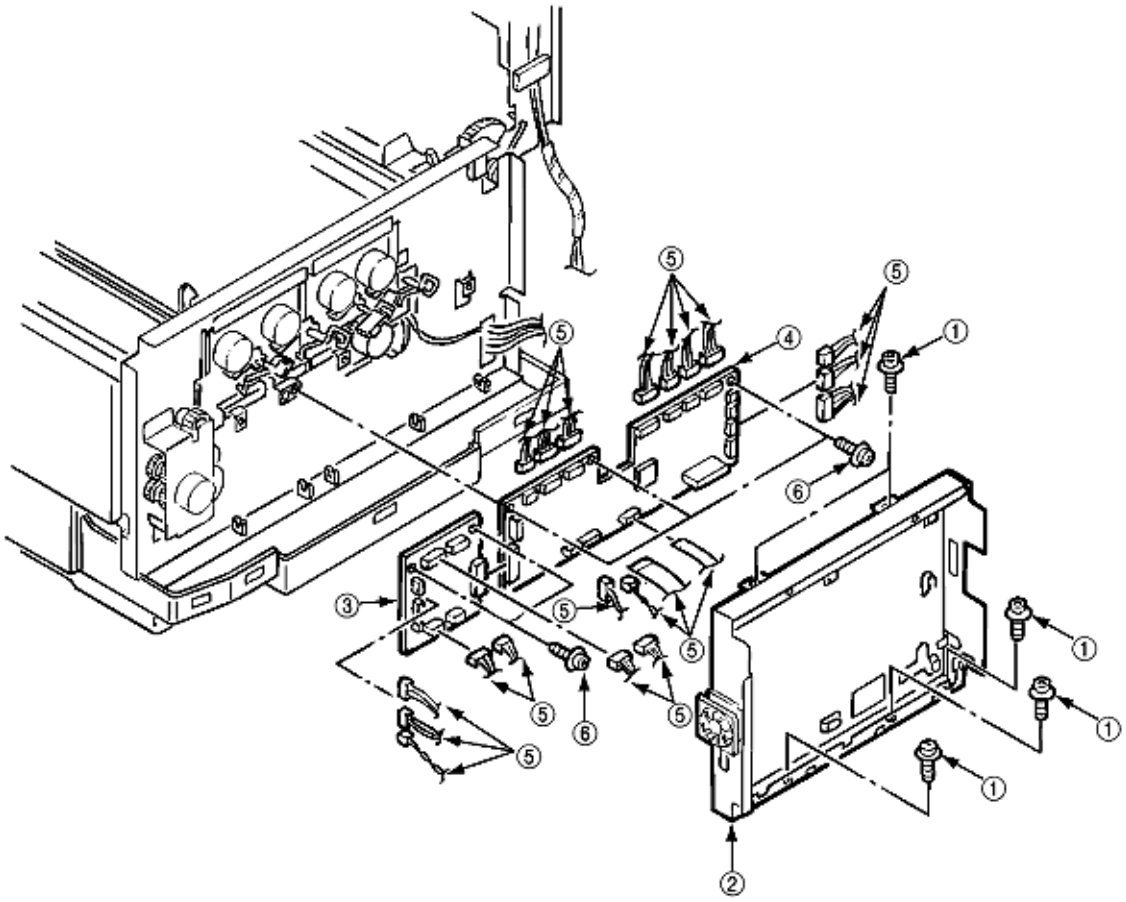

Figure 3.3.11 PXF PCB/PXS PCB

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3.3.12 Gear Heat Assy

1. Remove the cover assy side (R), cover assy OP panel, cover front (R) and the cover rear (L). (See 3.3.8)
2. Remove the cover CU then unplug all the cables connected to the PX4 PCB and unscrew 3 screws. (See 3.3.11)
3. Unplug all the cables connected to the PXF PCB then remove the PX4 PCB. (See 3.3.11) **(Be careful not to damage the connector when unplugging cables connected to the PXF PCB.)**
4. Remove the heat unit assy. (See 3.3.40)
5. Remove the guide paper eject assy. (See 3.3.3)
6. Remove the motor fan (80-25). (See 3.3.2)
7. Remove the 5 screws (1) and detach the cable (2) then remove the guide heat assy (3).
8. Remove the 2 screws (4) then remove the motor (ID) (5).

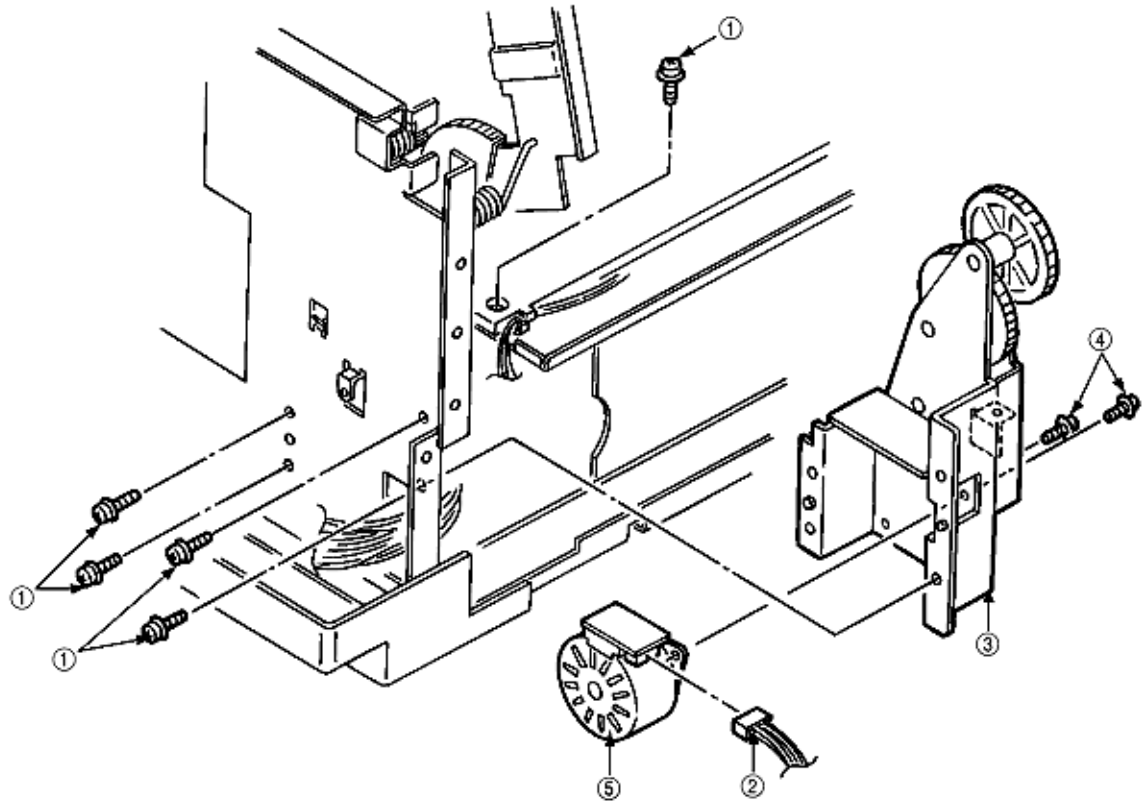

Figure 3.3.12 Gear Heat Assy

(3)	**40310001**	**Gear-Heat-Assy**	**RSPL**	**8-5, #1**
	Includes:			
	40124101	**Motor-Pulse (ID)**	**RSPL**	**8-5, #11**
	40448901	**Gear - Heat - Mech Assy**	**RSPL**	**8-5, #40**
(5)	**40124101**	**Motor - Pulse (ID)**	**RSPL**	**8-5, #11**

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3.3.13 Main Motor (A), (B) Assy

1. Remove the PXF PCB and PX4 PCB. (See 3.3.11)
2. Remove the 4 screws (8) and remove 4 plate-Earth (9) and 4 lever Up/Dn 2 (1).
3. Detach the all the cables (2) connected and unscrew 4 screws (3), then remove the main motor (A) assy (4).
4. Detach the all the cables (5) connected and unscrew 3 screws (6), then remove the main motor (B) assy (7).

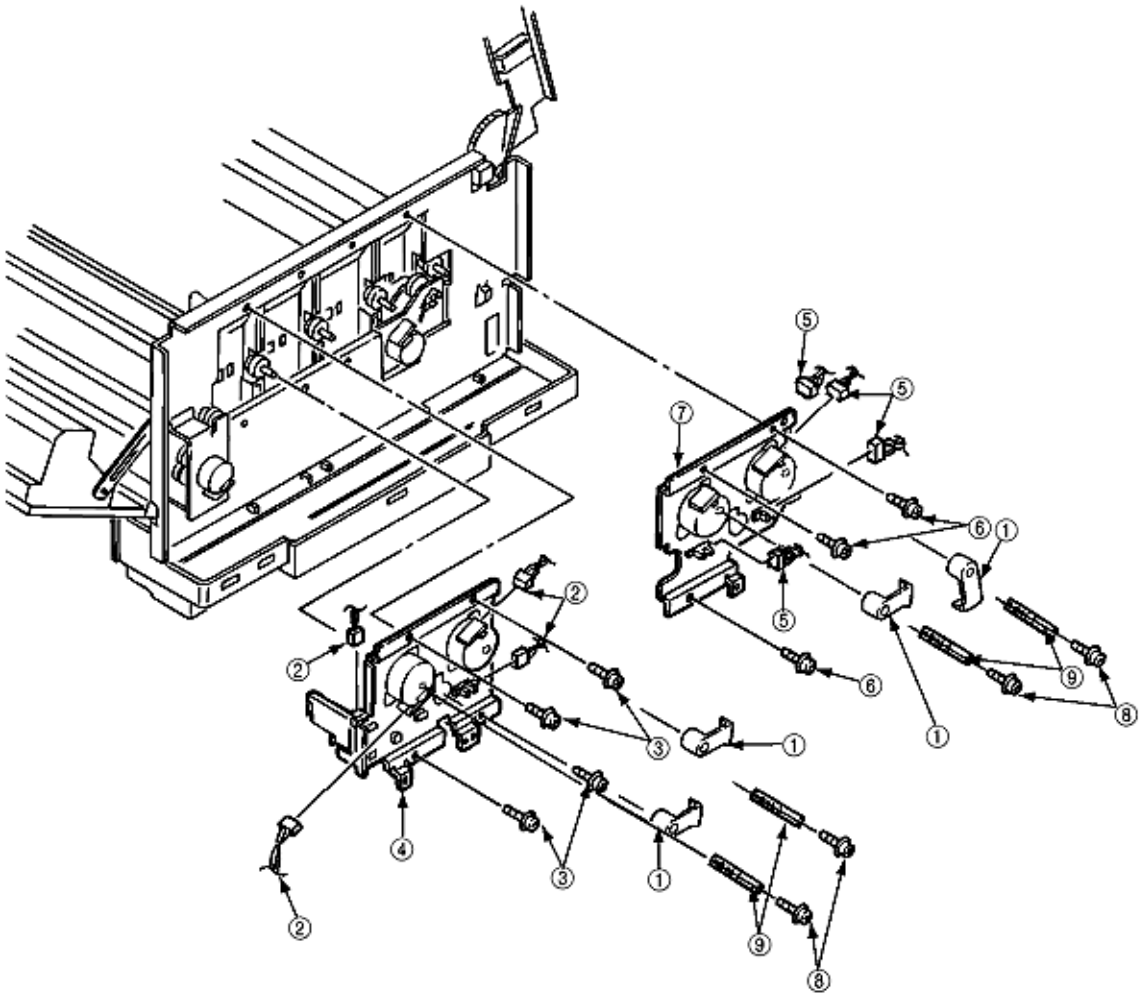

Figure 3.3.13 Main Motor (A), (B) Assy

(9)	**40583901**	**Plate - Earth (LKR)**	**RSPL**	**8-5, #42**
(1) B	**40664401**	**Lever - Up/Dn 2 (YMC)**	**RSPL**	**8-5, #6**
(4)	**40309101**	**Main - Motor (A) - Assy**	**RSPL**	**8-5, #3**
(7)	**40309201**	**Main - Motor (B) - Assy**	**RSPL**	**8-5, #4**
(1) A	**40664501**	**Lever - Up/Dn 2 - (K)**	**RSPL**	**8-5, #41**

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3.3.14 Gear One-way (Z30)

Four gear one-ways (Z30) are provided but the method of those replacements is the same. Do not disassemble the gear one-ways (Z30) because they are assemblies which require adjustment.

1. Remove the PCB assy : PCM. (See 3.3.9)
2. Remove the cover CU. (See 3.3.11)
3. Remove the 4 Plate-Earth and 4 lever Up/Dn 2. (See 3.3.13)
4. Release the lock with the shaft by spreading the claw, then remove the gear one-way (Z30) (1).

[Notice for mounting]

Mount the gear one-way (Z30) by fitting it with the shaft link turned in the arrow direction.

40208101	**Gear - One - Way - (Z30)**	**RSPL**	**8-5, #5**

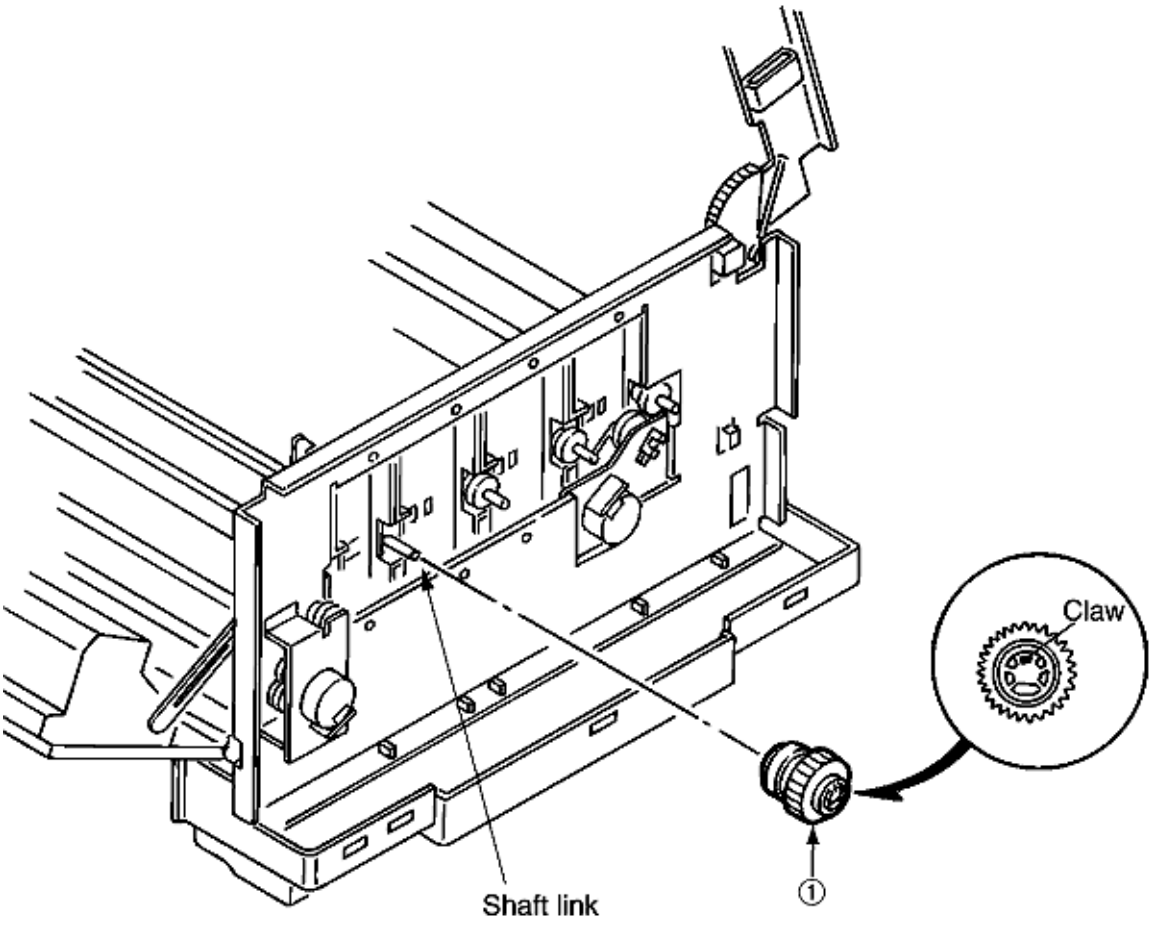

Figure 3.3.14 Gear One-Way (Z30)

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3.3.15 Motor Assy Belt

1. Remove the main motor (B) assy. See (3.3.13)
2. Unplug 2 cables (1) connected and unscrew 2 screws (2), then remove the motor assy belt (3).

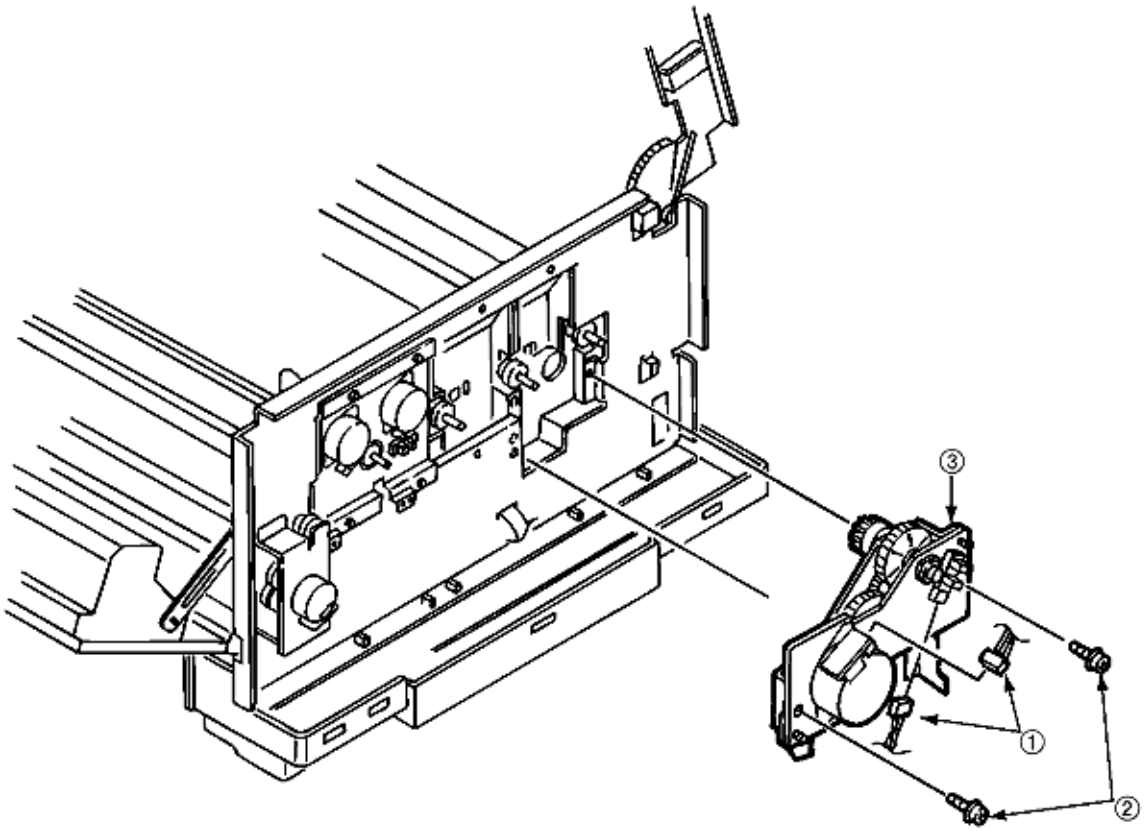

Figure 3.3.15 Motor Assy Belt

(3)	**40392301**	**Motor - Assy - Belt**	**RSPL**	**8-5, #1**
	Includes			
	40124101	**Motor - Pulse**	**RSPL**	**8-5, #11**
	40135301	**Photo - Interrupter**	**RSPL**	**8-5, #39**
	40450001	**Belt - Motor - Mech - Assy**	**RSPL**	**8-5, #37**

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3.3.16 Power Supply Unit, Holder Inlet, Sheet Insulation

1. Remove the motor-fan (80-25). (See 3.3.2)
2. Remove the frame side (L), the cover assy side (R) and the cover rear (L). (See 3.3.8)
3. Detach the cable (1).
4. Remove the holder inlet (3) by unscrewing 2 screws (2), then remove the power switch (4) and unplug the AC socket (5).
5. Draw the power supply unit (7) by unscrewing 2 screws (6), then unplug the cable (8).

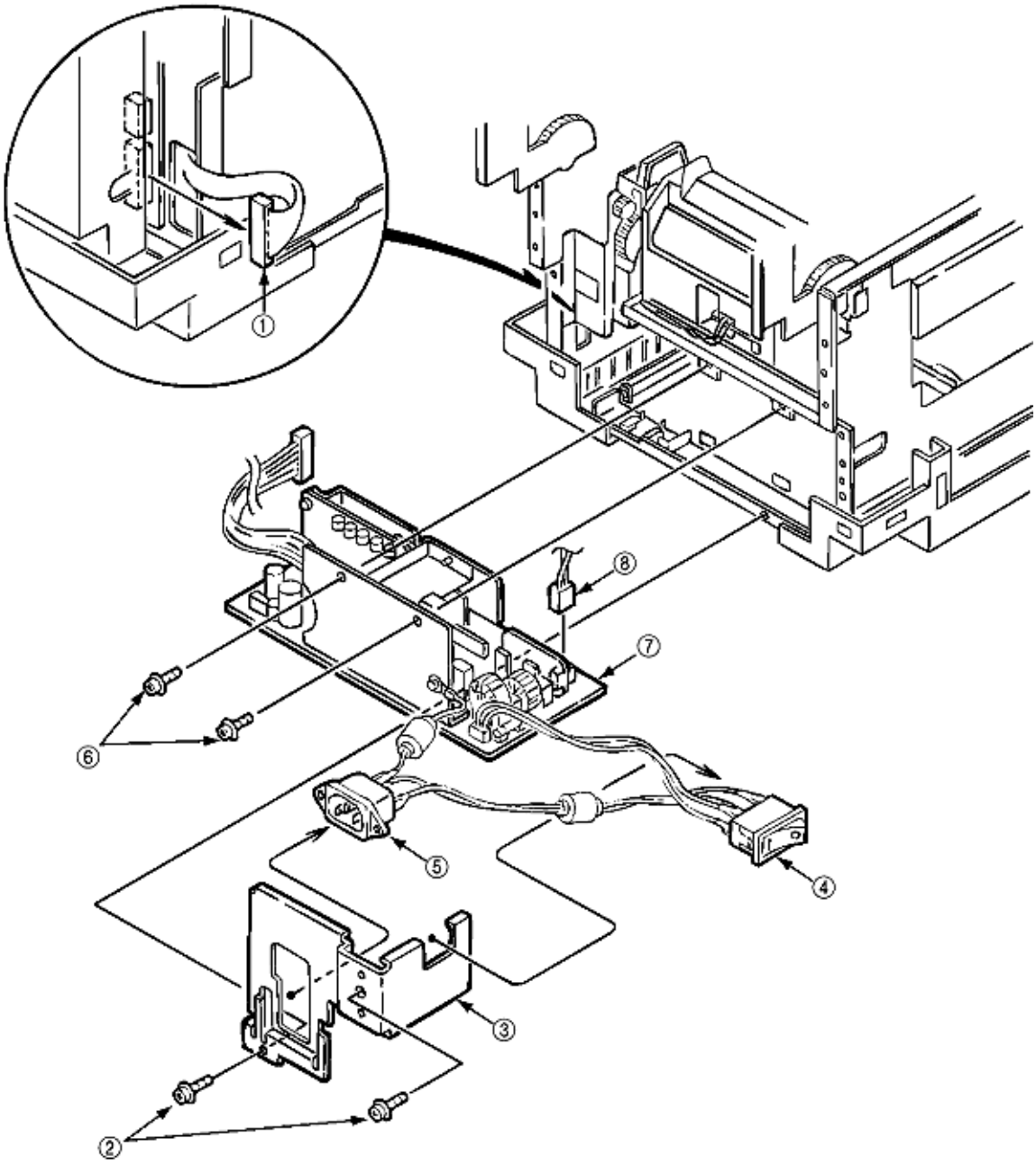

Figure 3.3.16 Power Supply Unit, Holder Inlet, Sheet Insulation

(7)	**40018901**	**Power - Unit - ACDC - Switching 120V**	**RSPL**	**8-2, # 5**
	40019001	**Power - Unit - ACDC - Switching 230V**	**Option RSPL**	**8-2, # 5**

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3.3.17 Sensor Assy Box Toner

1. Remove the power supper unit. (See 3.3.16)

2. Unscrew the screw (1) then remove the sensor assy box toner (2) together with the bracket 93).

3. Unscrew the screw (4) then remove the sensor assy box toner (2).

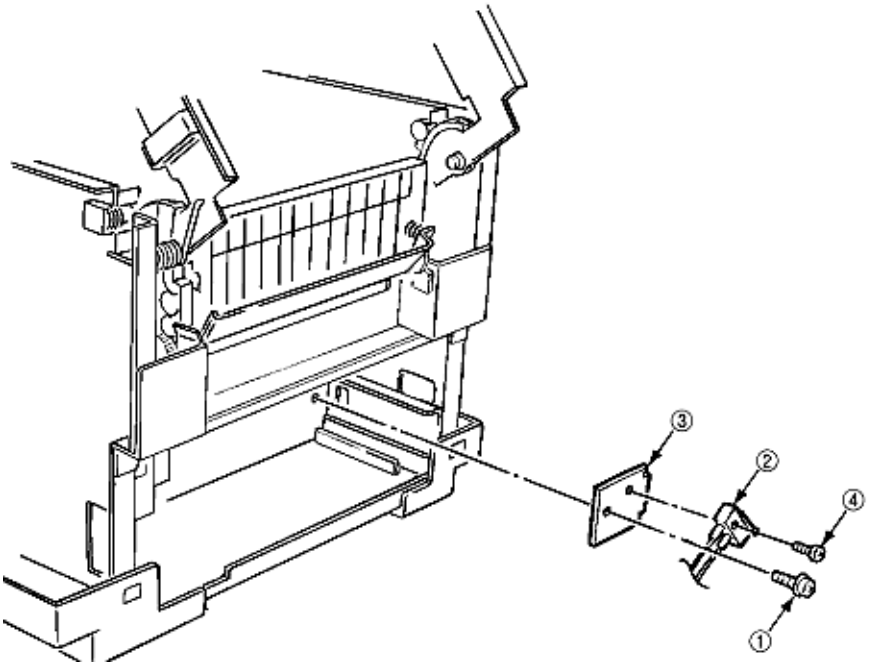

Figure 3.3.17 Sensor Assy Box Toner

(2)	**40450401**	**Sensor - Assy - Box - Toner**	**RSPL**	**8-3, Item 5**
(3)	**40450201**	**Bracket - Switch**	**RSPL**	**8-3, Item 47**

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3.3.18 Square-shaped Connector

1. Remove the power supply unit. (See 3.3.16) (Do not remove the power switch and AC socket from the holder inlet.)
2. Unplug the cable (1).
3. Remove cable (2), screw (5) and bracket (6) in order and then take off SW from bracket (6) to pull off square-shaped connector (4).

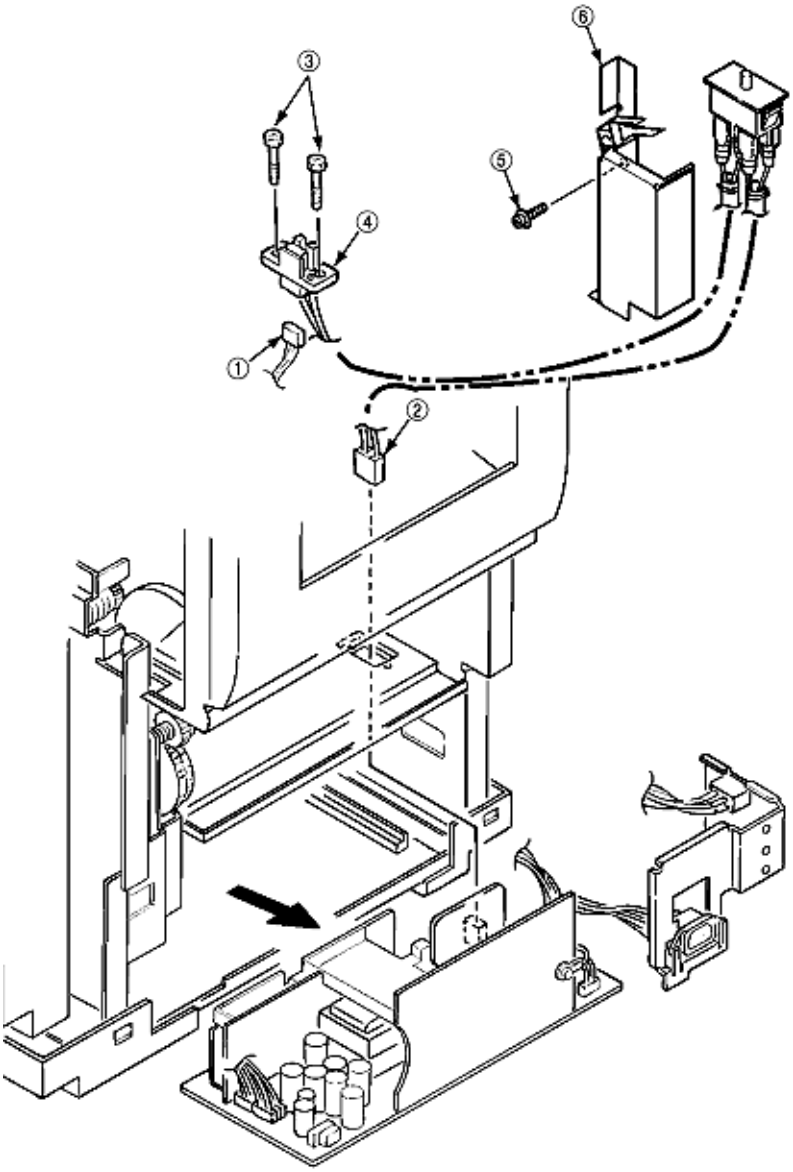

Figure 3.3.18 Square-shaped Connector

(3)	**50318601**	**PB4043-4718 P001**	**Screw**	**RSPL**	**8-3, #38**
(6)	**40446501**		**Interlock - SW - Cable - Assy**	**RSPL**	**8-3, #53**
(4)	**40563101**		**Connection-Cord-Wire**	**RSPL**	**8-3, #37**

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3.3.19 Motor - Pulse (ID)

1. Remove the cover assy side (R), cover assy OP panel and the cover front (R). (See 3.3.8)
2. Unscrew 2 screws (1) and unplug the cable (2), then remove the bracket hopping motor (3). (Be careful not to lose the gears (5), (6) and (7) which slip off at this time.)
3. Unscrew 2 screws (8) then remove the hopping motor (3).

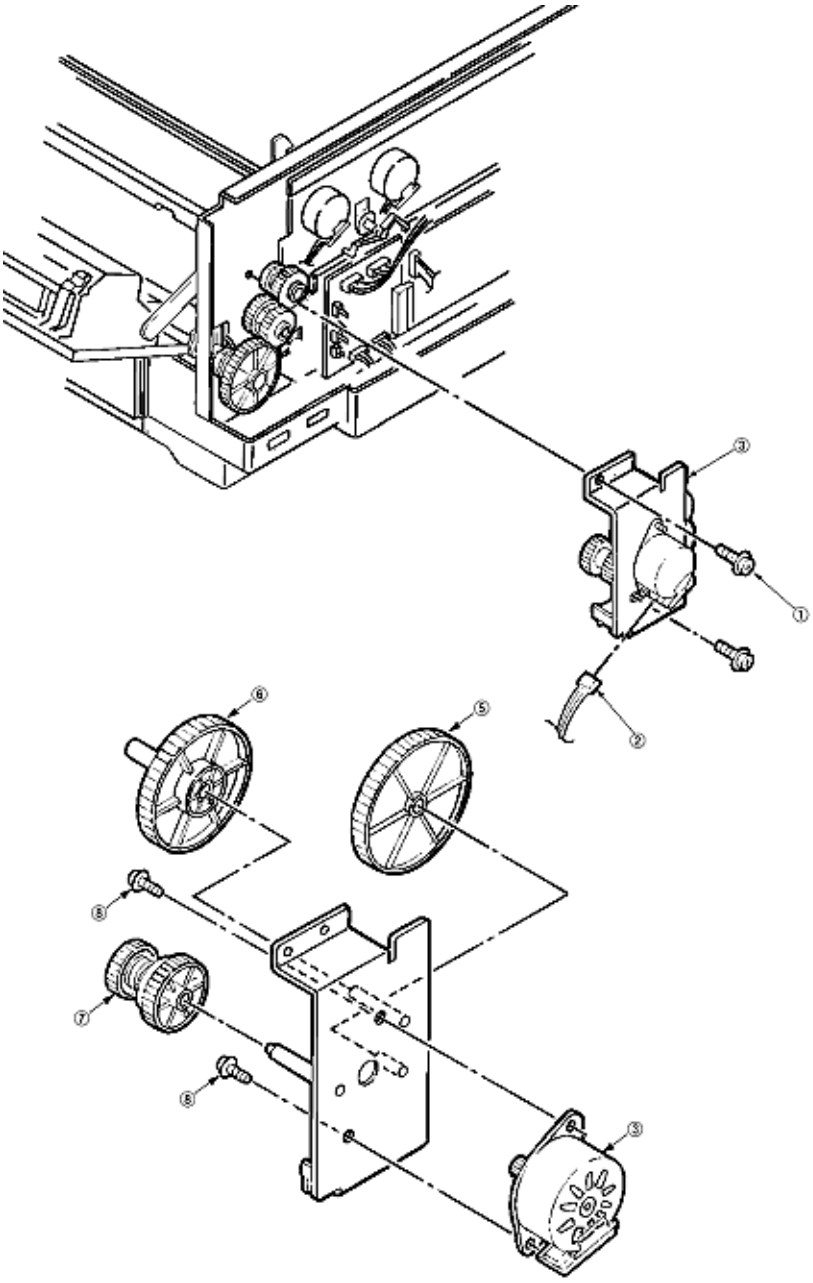

Figure 3.3.19 Motor - Pulse (ID)

(3B)	40124101	Motor - Pulse (ID)	RSPL	8-5, 11
(3A)	40175001	Bracket - Hopping - Motor	RSPL	8-5, #7
(5)	40143501	Gear - Feed (118/7)	RSPL	8-5, #9
(6)	40143401	Gear - Idle (92)	RSPL	8-5, #8
(7)	40164401	Gear - One Way - (Z48/74)	RSPL	8-5, #10
(2)	40171001	Cord - Wire - AMP8P AMP4PX2 (Y8D-240x270mm)	RSPL	8-5, #23

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3.3.20 One-way Gears

1. Remove the bracket hopping motor. (See 3.3.19).

2. Remove the spacer (4) first and release the locks with the shaft by spreading the claws of the gear one-way 91), 92) and (3), then remove the gear one-ways.

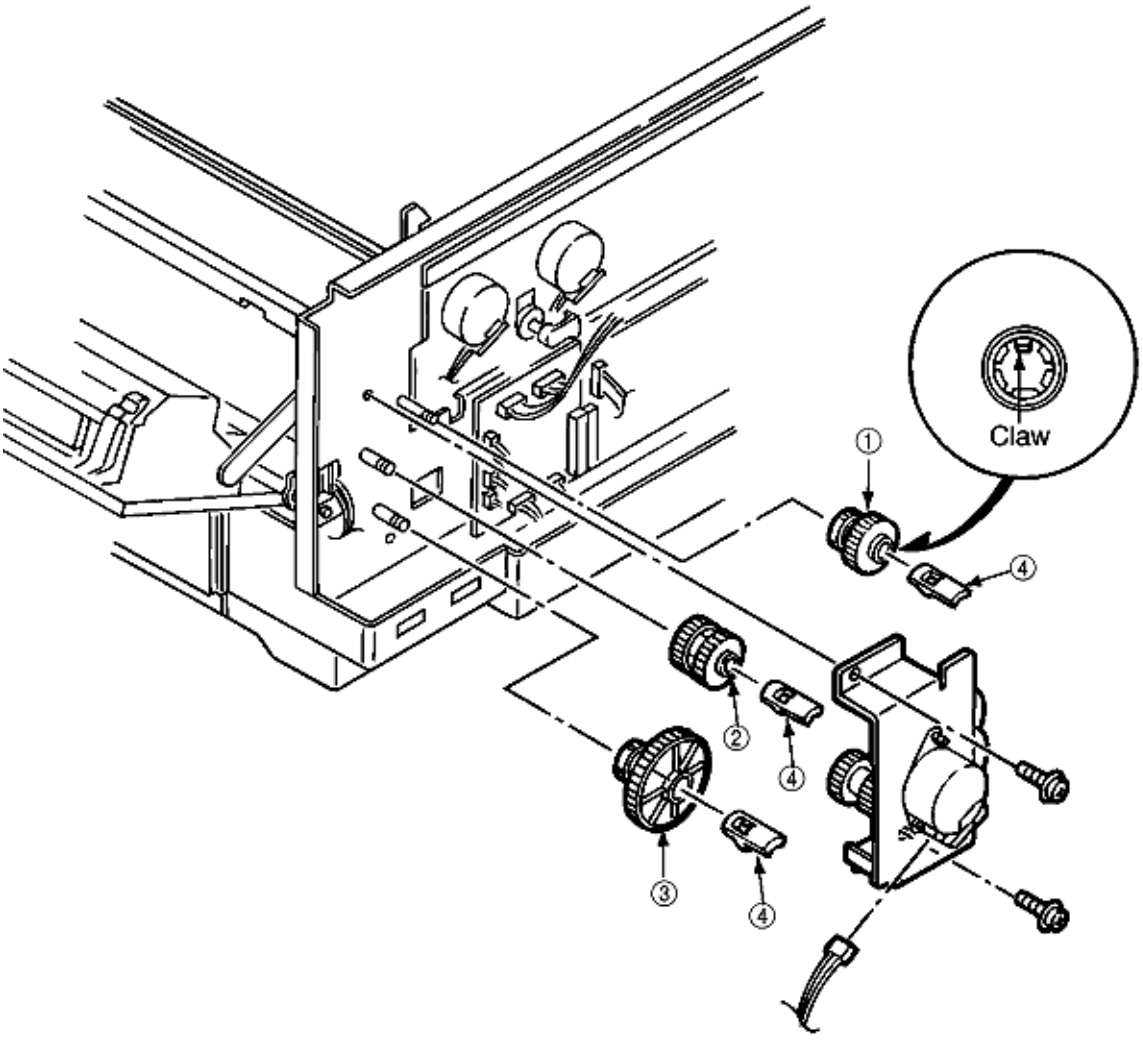

Figure 3.3.20 Gear One-way

(4)	40686701	Space - Register - Gear	RSPL	8-3, 67
(1)	40164301	Gear - One - way (Z48)	RSPL	8-3, #31
(2)	40164501	Gear - One - way (Z48/48)	RSPL	8-3, #30
(3)	40250901	Gear - One - way (96)	RSPL	8-3, #29

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3.3.21 Feeder Unit Front

1. Remove the cover assy side (R), cover assy OP panel, cover front (R) and the cover front (L). (See 3.3.8.)
2. Remove the cover CU. (See 3.3.11)
3. Unplug the cable (1) and unscrew the screw (2), then remove the bracket FF shaft (3).
4. Remove 2 E-rings (4) then remove the feeder unit front (5).
5. Unscrew each 2 screws (6) then remove 2 bracket FF links (7).

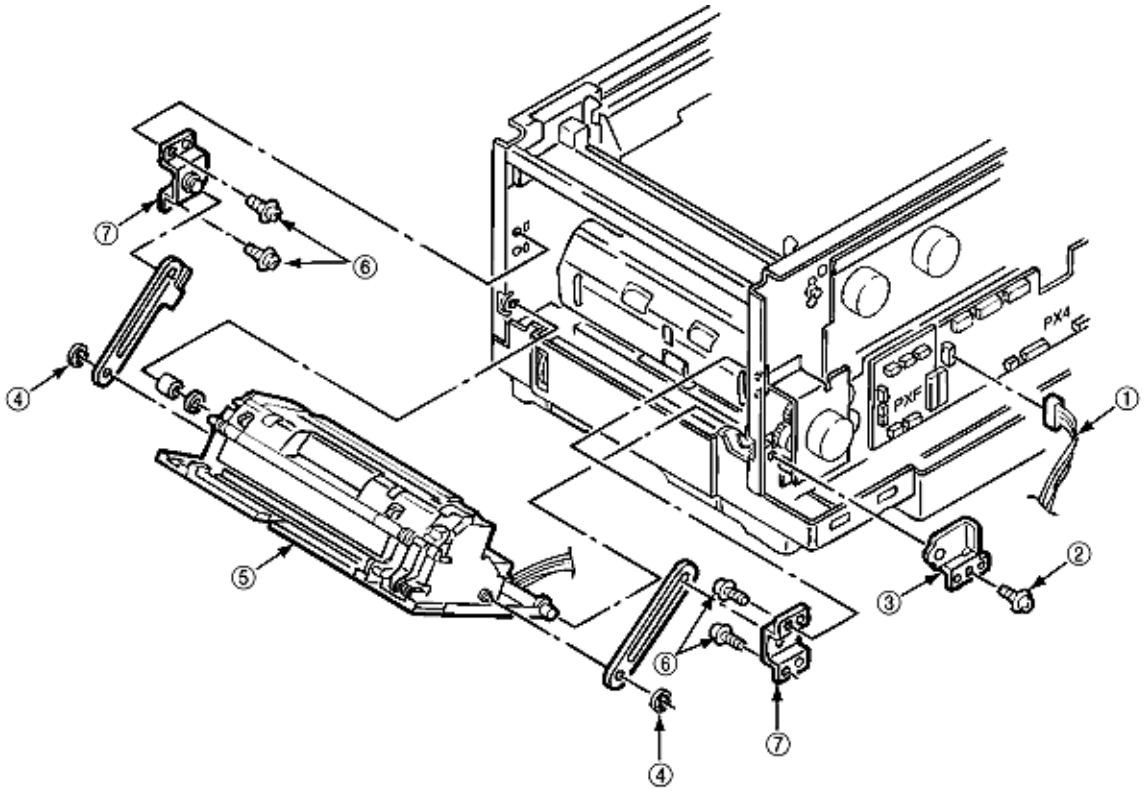

Figure 3.3.21 Feeder Unit Front

(1)	40641801	Conn - Cord - Wire	RSPL	8-2, #29
(3)	40193601	Bracket - FF - Link	RSPL	8-2, #7
(5)	40311201	FDR - Unit - Front	RSPL	8-2, #6
	Includes:			
	55700401	2PA4128-1076G001 Hopper - Manual - Feed (Assy)	RSPL	8-2, #26

	40449001	**FDR - Unit - Main - Assy**	**RSPL**	**8-2, #27**
(7)	**40193501**	**Plate: FF Link**	**RSPL**	**8-2, #7**

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3.3.22 Manual Feed Hopper Assy

1. Open the manual feed hopper assy.
2. Release the engagement between the holder and the link then remove the manual feed hopper assy. (Be careful not to damage the holder.)

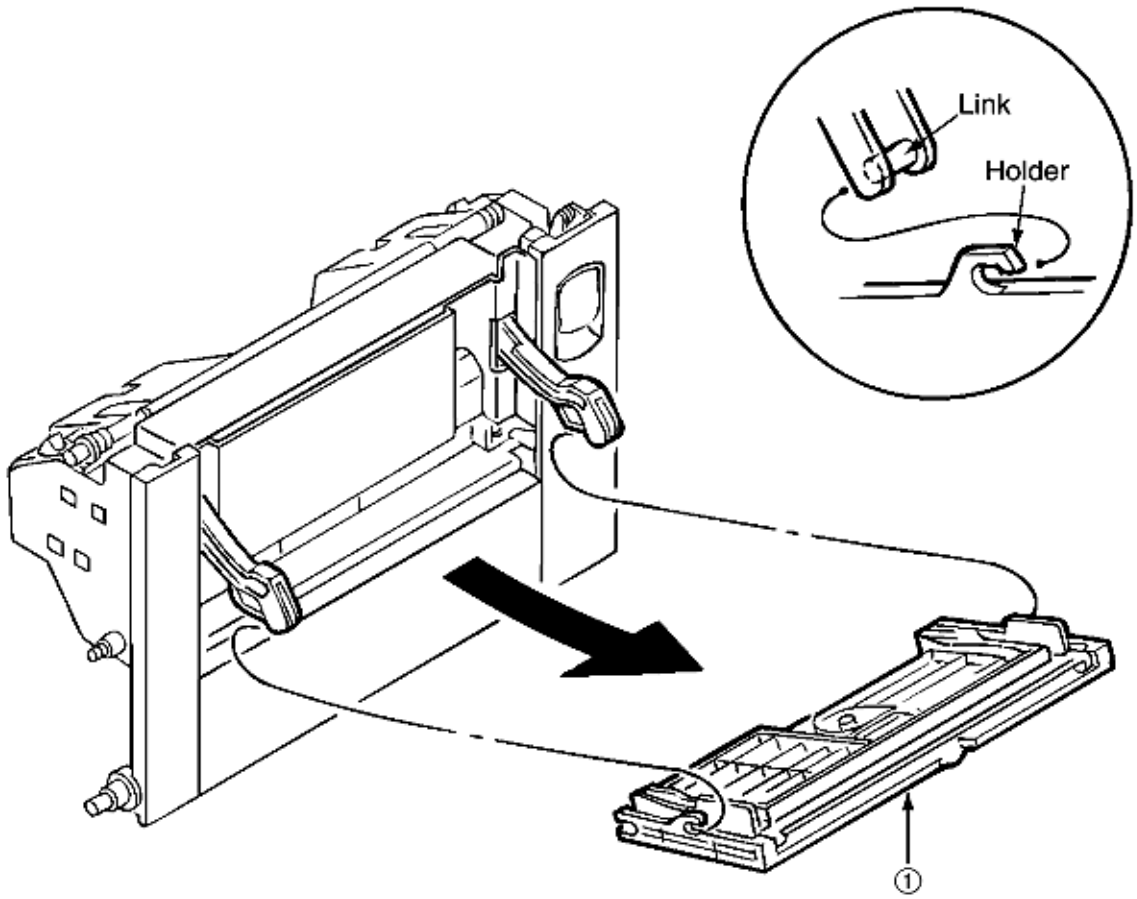

Figure 3.3.22 Manual Feed Hopper Assy

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3.3.23 Guide Paper Input Assy

1. Remove the cover assy OP panel, cover front (R) ad the cover front (L). (See 3.3.8.)
2. Remove the feeder unit front. (See 3.3.21)
3. Unscrew 4 screws (1) then draw out the guide paper input assy (2) from the left side by rotating its upper part. **(Be careful not to damage the lever sensor resist).**

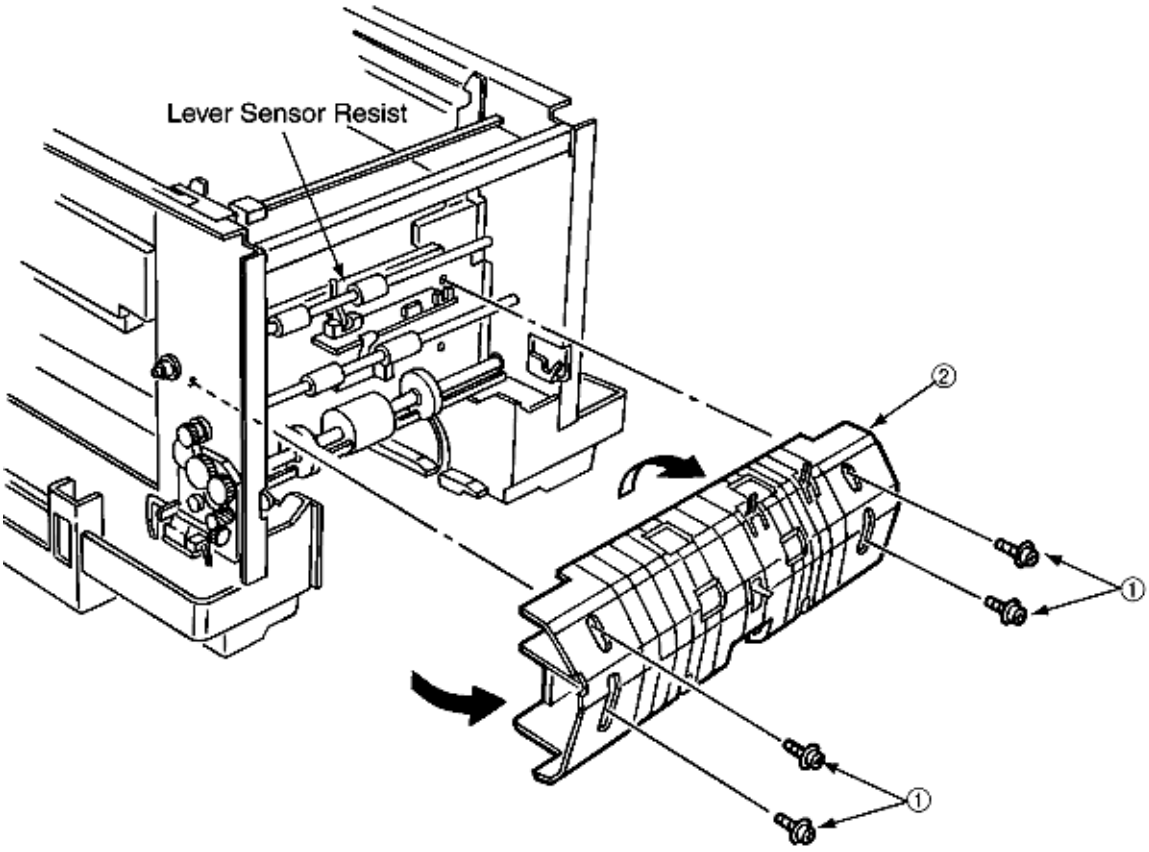

Figure 3.3.23 Guide Paper Input Assy

(2)	**40303301**	**Guide - Paper - Input - assy**	**RSPL**	**8-3, #24**
	Includes:			
	40097301	**Guide - Paper - Input - A**	**RSPL**	**8-3, #43**
	40144301	**Lever - Input - Sensor**	**RSPL**	**8-3, #44**
	40144401	**Lever - 2nd - Feed - Sensor**	**RSPL**	**8-3, #45**

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3.3.24 Two Lever Input Sensors, Lever 2nd Feed Sensor

1. Remove the guide paper input assy. (See 3.3.23.)
2. Release the engagement with the guide (3) by pressing the lever input sensors (1) in the arrow direction, then remove them.
3. Release the engagement with the guide by pressing the lever 2nd feed sensor (2) in the arrow direction, then remove the sensor.

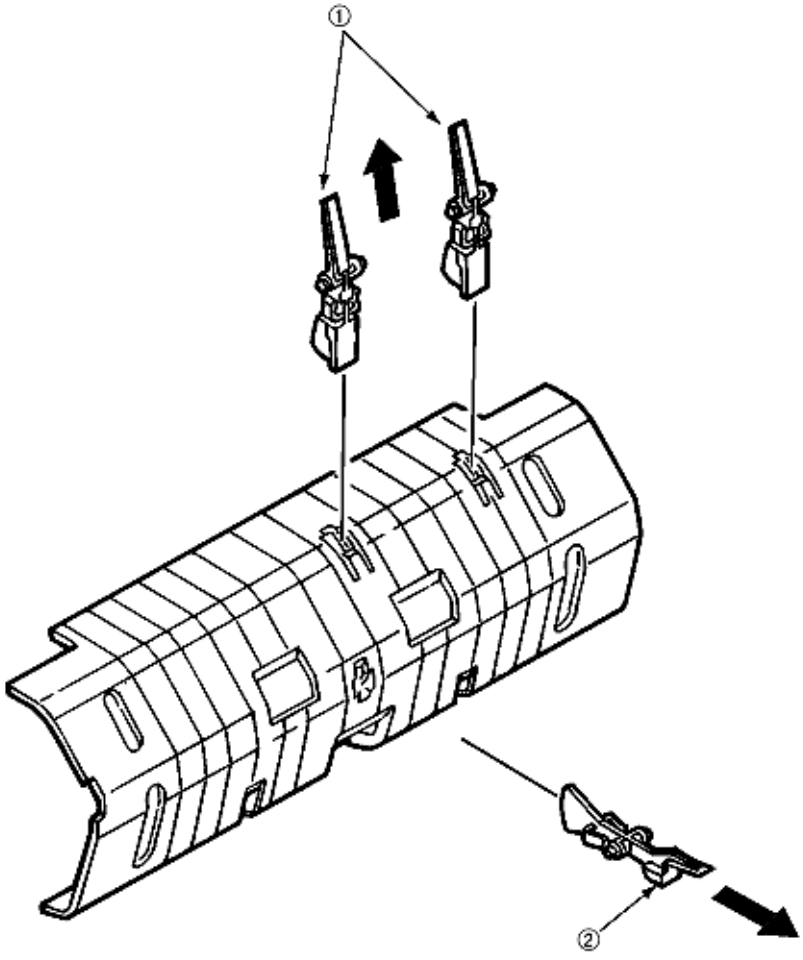

Figure 3.3.24 Two Lever Input Sensors, Lever 2nd Feed Sensor

	40303301	**Guide - Paper - Input - Assy**	**RSPL**	**8-3, #24**
	Includes:			

(3)	**40097301**	**Guide - Paper - Input A**	**RSPL**	**8-3, #43**
(1)	**40144301**	**Lever - Input - Sensor**	**RSPL**	**8-3, #44**
(2)	**40144401**	**Lever - 2nd - Feed - Sensor**	**RSPL**	**8-3, #45**

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3.3.25 Roller Registration, Roller Assy Hopping

1. Remove the guide paper input assy. (See 3.3.23.)
2. Remove the bracket hopping motor. (See 3.3.19)
3. Remove the gear one-way. (See 3.3.20)
4. Remove the holder gear toner assy. (See 3.3.30)

[Removal of the roller registration]

5. Remove the gear (1) and 2 bushes (2) and 2 bearings (3), then 2 roller registrations (4).

[Removal of the roller assy hopping]

6. Remove the bush (5) and the bearing (6).

7. Remove E-rings (9) of the sub-roller hopping at both sides of hopping roller and then release the lock of the roller hopping (7) with the shaft (8) by spreading the claw, then remove the roller hopping from the left side by the sliding shaft (8) in the arrow direction. **(Be careful not to lose the knock-pin for fastening the roller hopping (7), which slisp off together.)**

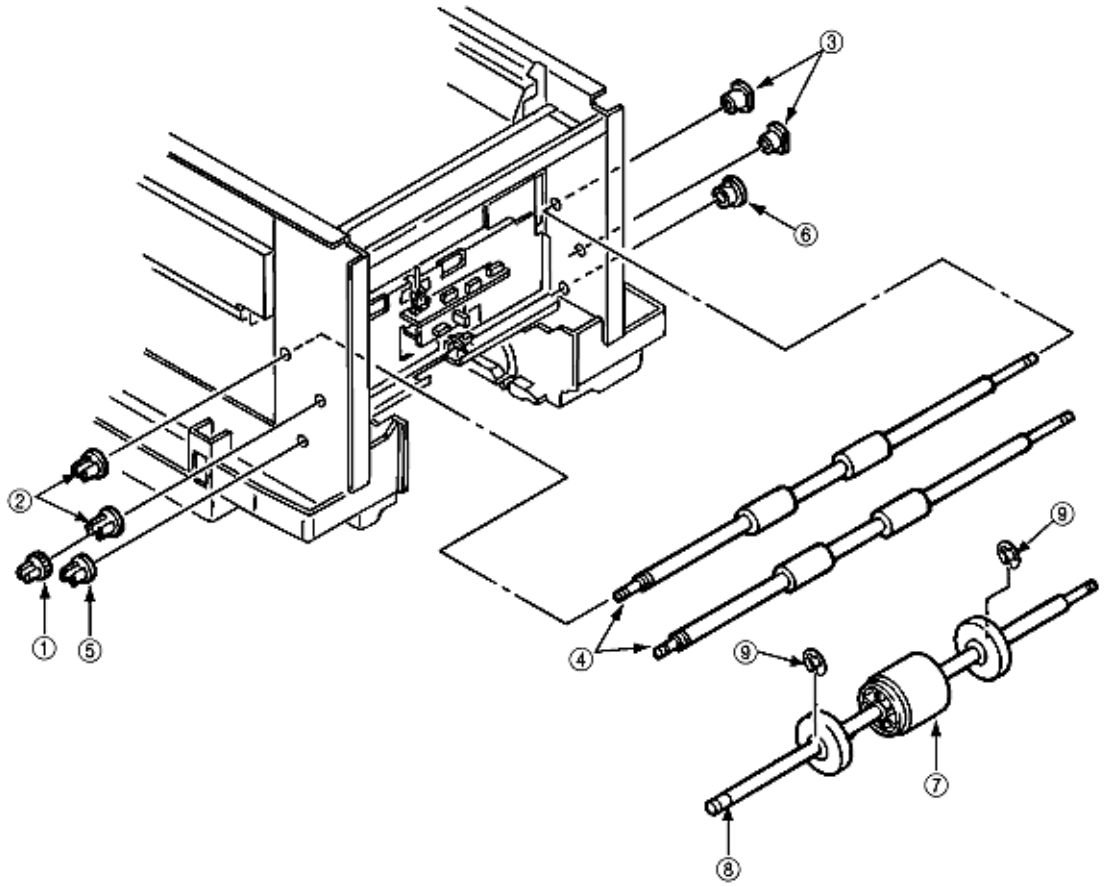

Figure 3.3.25 Roller Registration, Roller Assy Hopping

	40310601	**Roller - Assy - Hopping**	**RSPL**	**8-3, #23**
	Includes:			
(7)	**40449701**	**Hopping - Roller - Boss - Assy**	**RSPL**	**8-3, #42**
(8)	**40189601**	**Shaft - Hopping - Roller - 1st**	**RSPL**	**8-3, #46**
	50608118	**NK3-18-SUS Knock-Pin**	**RSPL**	**8-3, #50**
(10)	**40743701**	**Roller - Assy - Hopping (Sub)**	**RSPL**	**8-3, #66**
(4)	**40130801**	**Roller - Registration**	**RSPL**	**8-3, #22**

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3.3.26 Hopping Roller Assy

1. Remove the roller assy hopping. (See 3.3.25) and remove the 2 sub-roller hopping guide (3). (Be careful not to lose the knock-pin which clips off together when removing the roller assy hopping.
2. Detach the roller hopping (2) from the shaft (1).

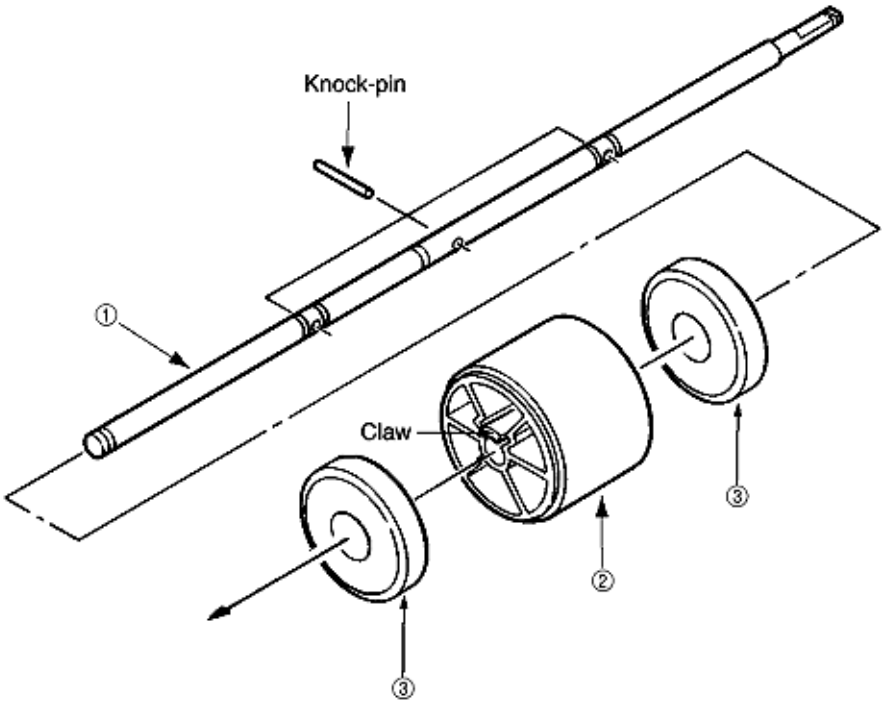

Figure 3.3.26 Hopping Roller Assy

	40310601	**Roller - Assy - Hopping**	**RSPL**	**8-3, #23**
	Includes:			
(2)	**40449701**	**Hoping - Roller - Boss - Assy**	**RSPL**	**8-3, #42**
(1)	**40189601**	**Shaft - Hopping - Roller - (1st)**	**RSPL**	**8-3, #46**
(4)	**50608118**	**NK3-18-SUS Knock-Pin**	**RSPL**	**8-3, #50**
(3)	**40743701**	**Roller Assy Hopping Sub**	**RSPL**	

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3.3.27 PXU PCB/PXM PCB, Lever Resist Sensor

Since the PXU PCB and PXM PCB are connected with each other via the cable, remove them at the same time.
1. Remove the guide paper input assy. (See 3.3.23)
2. Unscrew 4 screws 1 and unplug the cable 2, then remove the PXU PCB 3 and PXM PCB 4 at the same time.
3. Remove the lever resist sensor 5 by releasing the engagement with the guide.

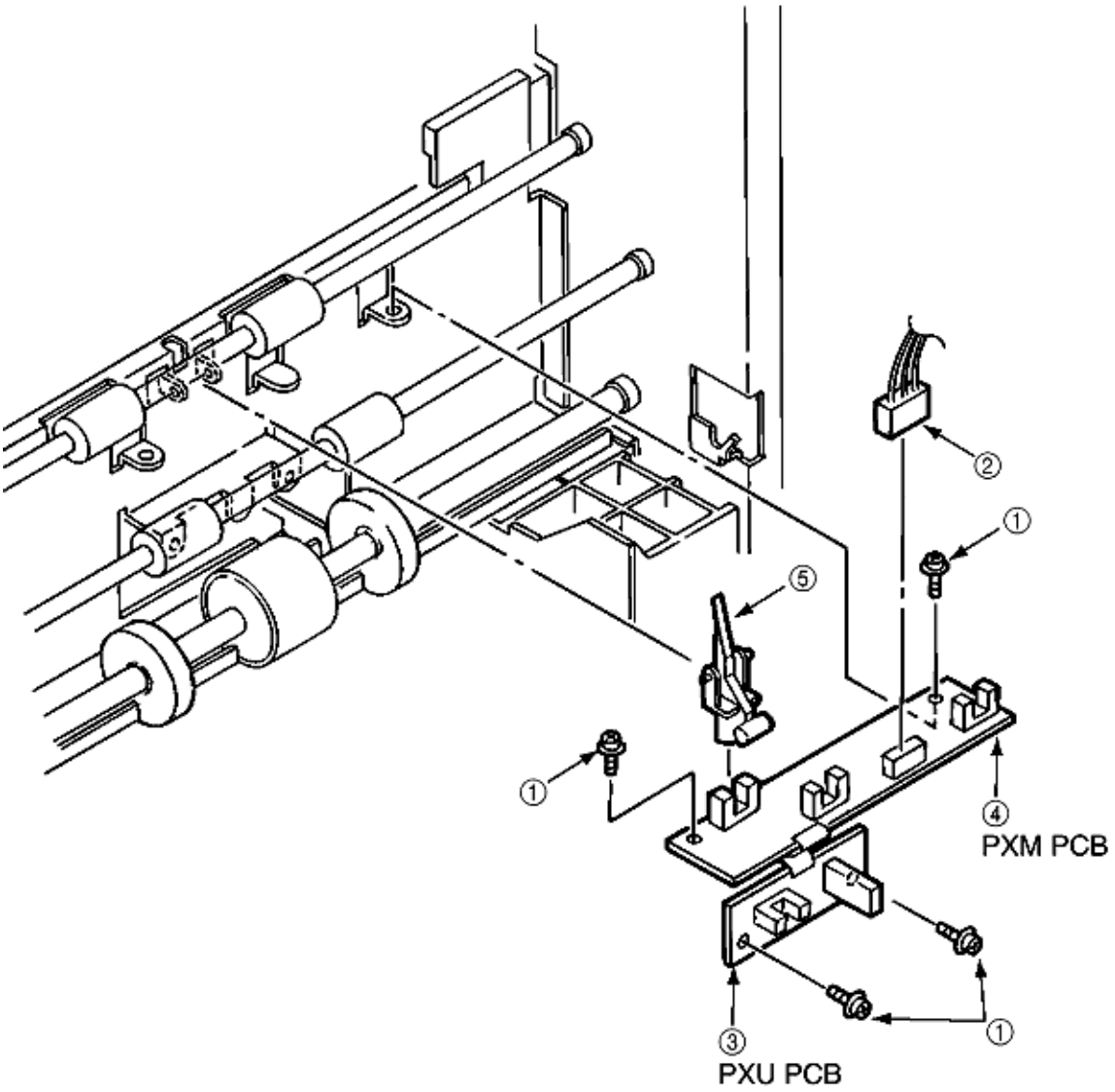

Figure 3.3.27 PXU PCB/PXM PCB, Lever Resist Sensor

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3.3.28 Paper End Lever

1. Remove the guide paper input assy. (See 3.3.23.)
2. Remove the paper end lever (1) by releasing the engagement with the guide.

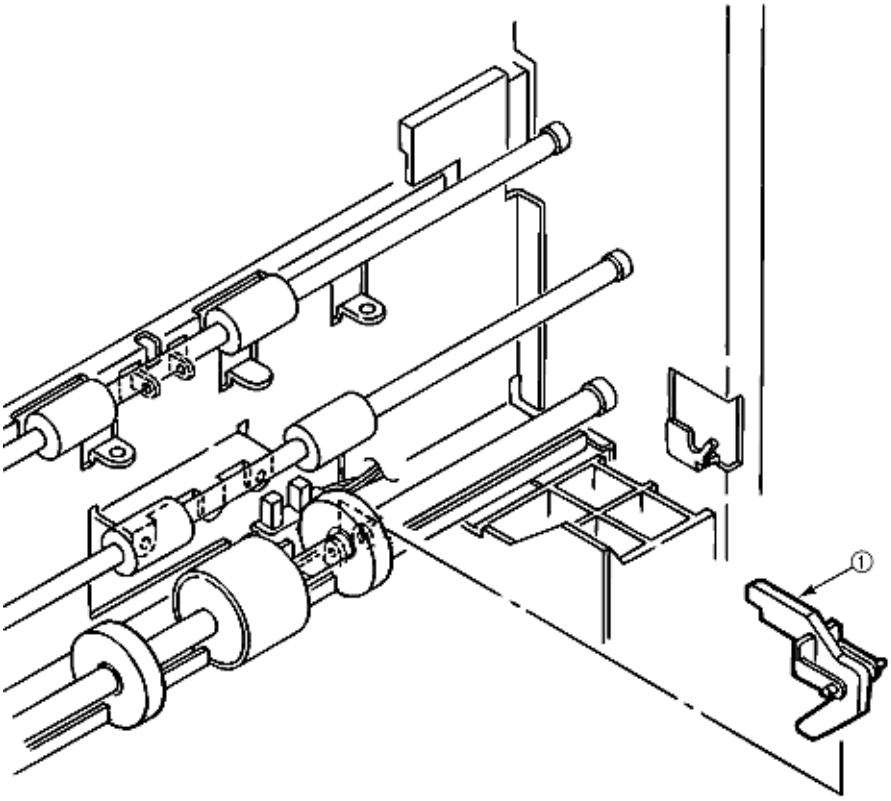

Figure 3.3.28 Paper End Lever

50808201	**4PP4076-5154P001**	**Lever: Paper End**	**RSPL**	**8-3, #4**

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3.3.29 PCO PCB (Operator Panel)

1. Remove the cover assy side (R), and the cover assy OP panel. (See 3.3.8.)
2. Unscrew 4 screws (1) and unplug the operator panel cable (2).
3. Remove the PCO PCB (3) by releasing 6 claws. (Be careful not to drop the LCD (Liquid Crystal Display) (4) and (5) which are detached together).

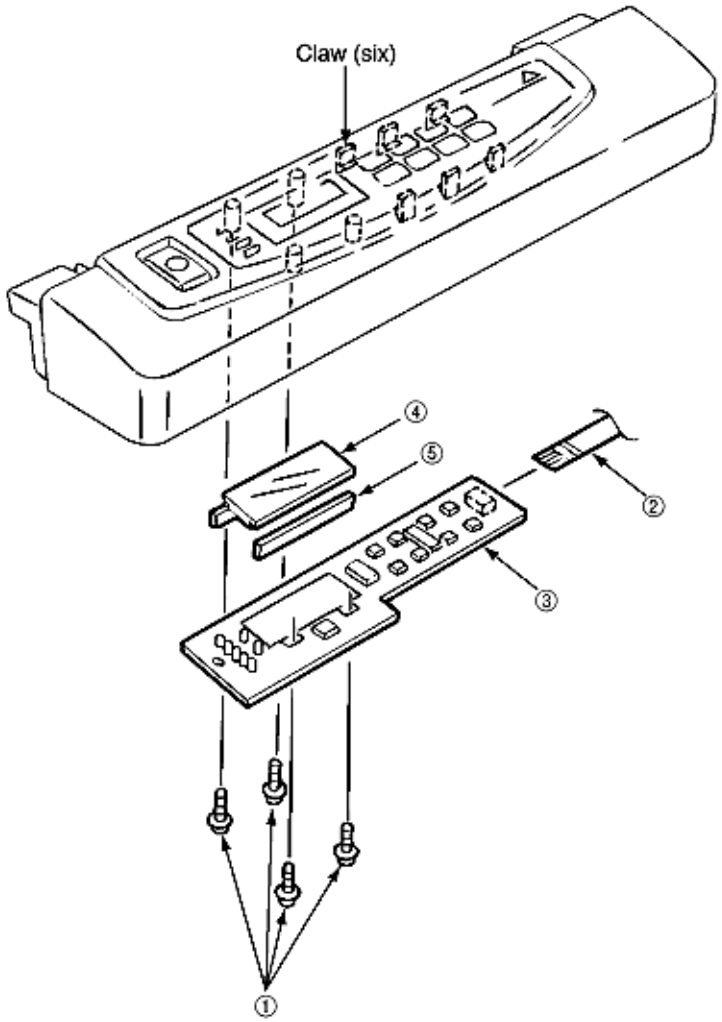

Figure 3.3.29 PCO PCB (Operator Panel)

(2)	**56636205**	**2381005P0005**	**Cable: HCUN (1.25)-6F-440-1056 (B)-M1 (20624)**	**RSPL**	**8-1, #19**

(3)	**40387201**		**PCO PCB**	**RSPL**	**8-1, #18**
(6)	**40492601**		**Cover - Sub - Assy - Op - Panel**	**RSPL**	**8-1, #11**
	40314901		**Cover - Assy - Op - Panel (Includes 3 & 6)**	**RSPL**	**8-1, #10**

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3.3.30 Holder Gear Toner Assy

1. Remove the cover assy side (R), cover assy OP panel, cover front (R) and the cover front (L). (See 3.3.8.)
2. Unplug the cable (1) and unscrew the screw (2), then remove the holder gear toner assy (3).

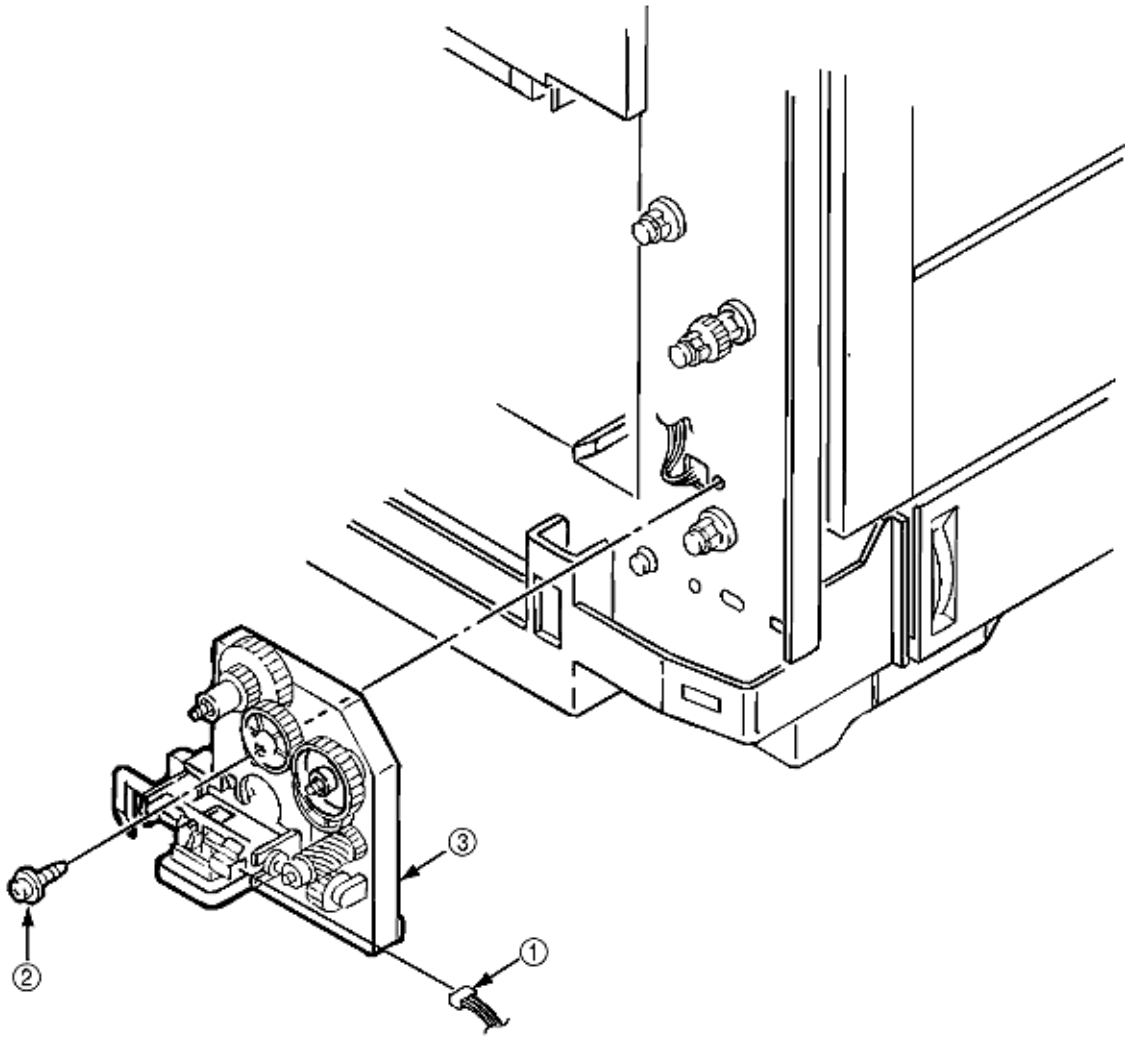

Figure 3.3.30 Holder Gear Toner Assy

(3)	**40309801**	**Holder - Gear - Toner - Assy**	**RSPL**	**8-2, #10**

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3.3.31 Plate Latch Lever (FD), Spring Latch Lever (FD)

1. Remove the cover assy side (R), cover assy OP panel, cover front (R) and the cover front (L). (See 3.3.8.)
2. Open the cover CU. (See 3.3.11)
3. Unplug the cable (1).
4. Unscrew the screw (2) then remove the bracket SW (side) (3).
5. Unscrew 4 screws (4) then remove the stay upper (front) (5).
6. Remove the plate latch lever (FD) (6) and spring latch lever (FD) (7) with the side frames spread. **(Be careful not to spread the frames too much).**

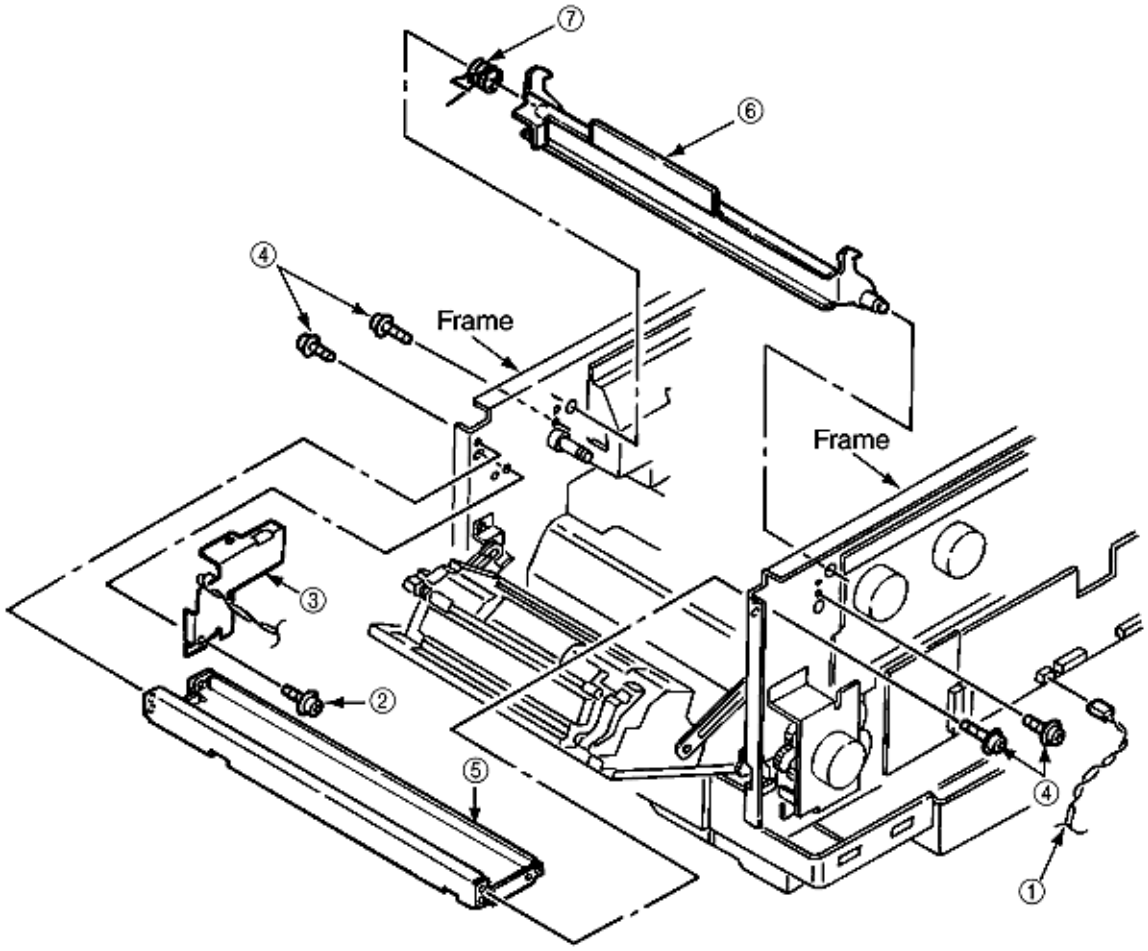

Figure 3.3.31 Plate Latch Lever (FD), Spring Latch Lever (FD)

(3)	**40388501**	**Bracket - SW**	**RSPL**	**8-3, #33**
(5)	**40171101**	**Stay - Upper - (Front)**	**RSPL**	**8-3, #32**
(6)	**40195101**	**Plate - Latch - Lever (FD)**	**RSPL**	**8-3, #34**
(7)	**40195001**	**Spring - Latch - Lever (FD)**	**RSPL**	**8-3, #35**

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3.3.32 Transfer Belt

1. Open the Top cover.
2. Release the lock by drawing the cover knob then open the cover assy side (L).
3. Turn the waste toner box (box toner assy) (1) to the left by pressing it down, then remove it.
4. Draw out the belt cassette assy (2) by lifting it a little bit with its handle.

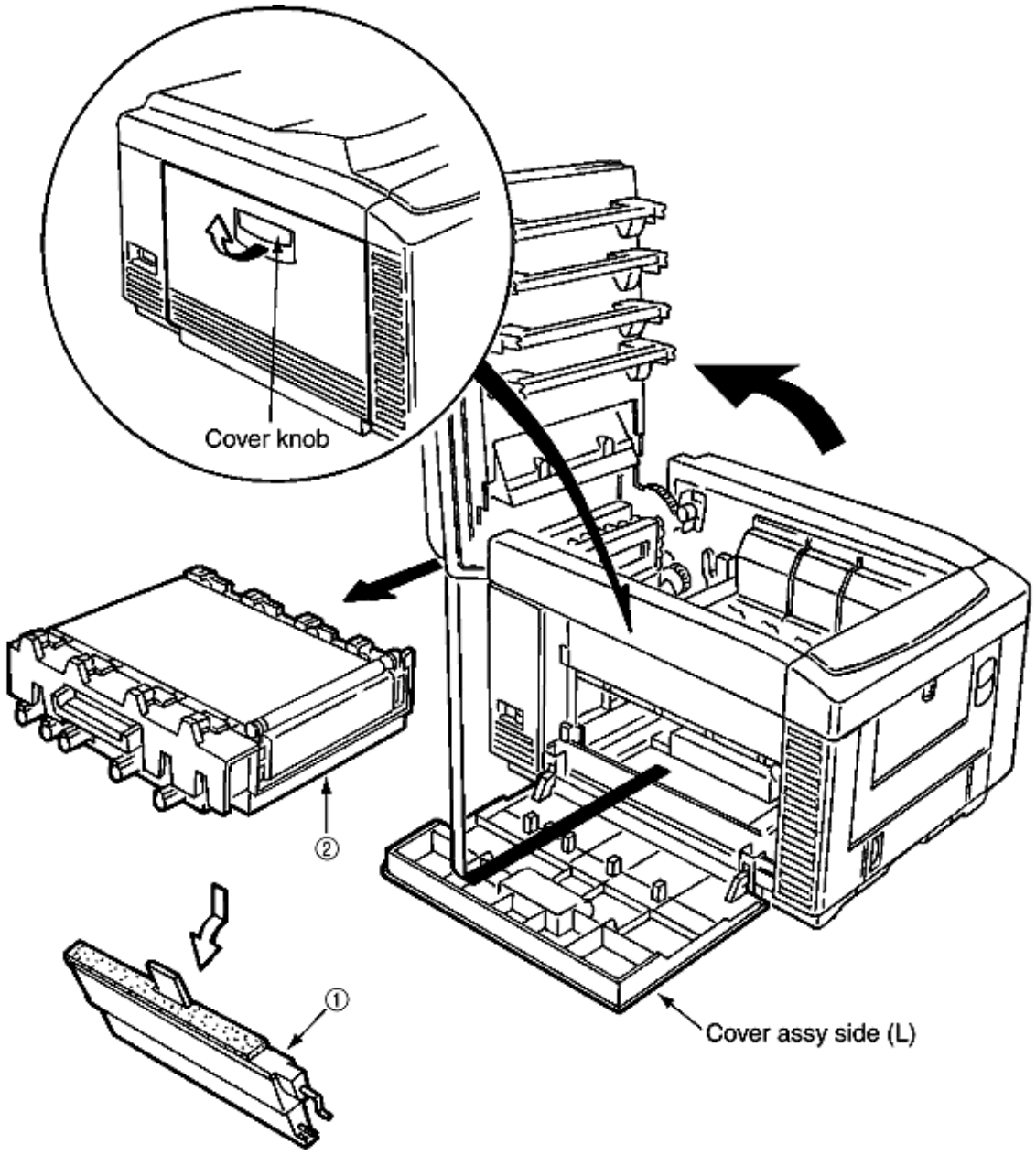

Figure 3.3.32 Transfer Belt

		Cover - Knob		**8-1, #15**
		Cover - Side (L)		**8-1, #14**
(1)	**40645401**	**Waste - Toner - Bottle - Kit (Consumable)**		**8-2, #30**
(2)	**40490802**	**Transfer Belt (Consumable)**		**8-2, #11**

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3.3.33 High Voltage Power Supply Unit, Bracket HV (BT) Assy

1. Remove the belt cassette assy. (See 3.3.32)
2. Unscrew 2 screws (1) with the stacker cover opened, then remove the plate HV (2).
3. Unplug the cable (3) and 7 codes (4).
4. Unscrew 2 screws (5) then remove the high voltage power supply unit (6).
5. Remove the bracket HV (BT) Assy (7).

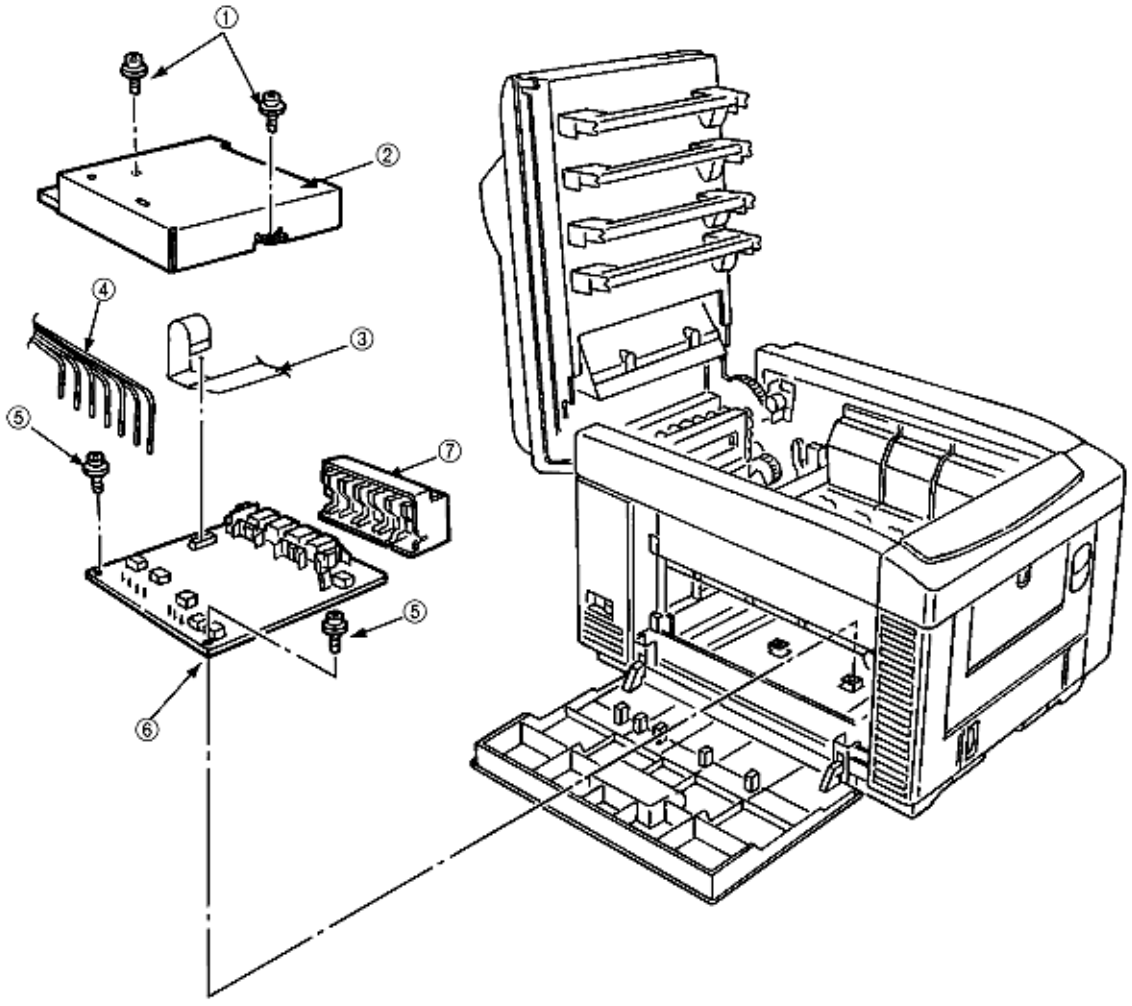

Figure 3.3.33 High Voltage Power Supply Unit, Bracket HV (BT) Assy

(2)	**40168001**	**Plate - HV**	**RSPL**	**8-2, #15**

(6)	**40065601**	**High - Voltage - Power - Supply**	**RSPL**	**8-2, #13**
(7)	**40325001**	**Bracket - HV - (BT) - Assy**	**RSPL**	**8-2, #14**

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3.3.34 Eraser Bracket Assy, Eraser Bracket (KCM) Assy

1. Remove the belt cassette assy. (See 3.3.32).
2. Open the stacker cover.
3. Remove four screws (5) and then remove the Plate Blind (6).

[Removing the eraser bracket assy]

4. Remove the screw (1) and the connector (2).

5. Release the screw (7) and then remove the eraser bracket assy (3).

[Removing the eraser bracket (KCM) assy]

6. Remove the screw (1) and the connector (2).

7. Release the lock of the claw then release the engagement with the bracket sensor T (KCM). (See 3.3.35).

8. Release the screw (7) and then remove the eraser bracket (KCM) assy (4) and unplug the cable (2) then remove the eraser bracket (KCM) assy.

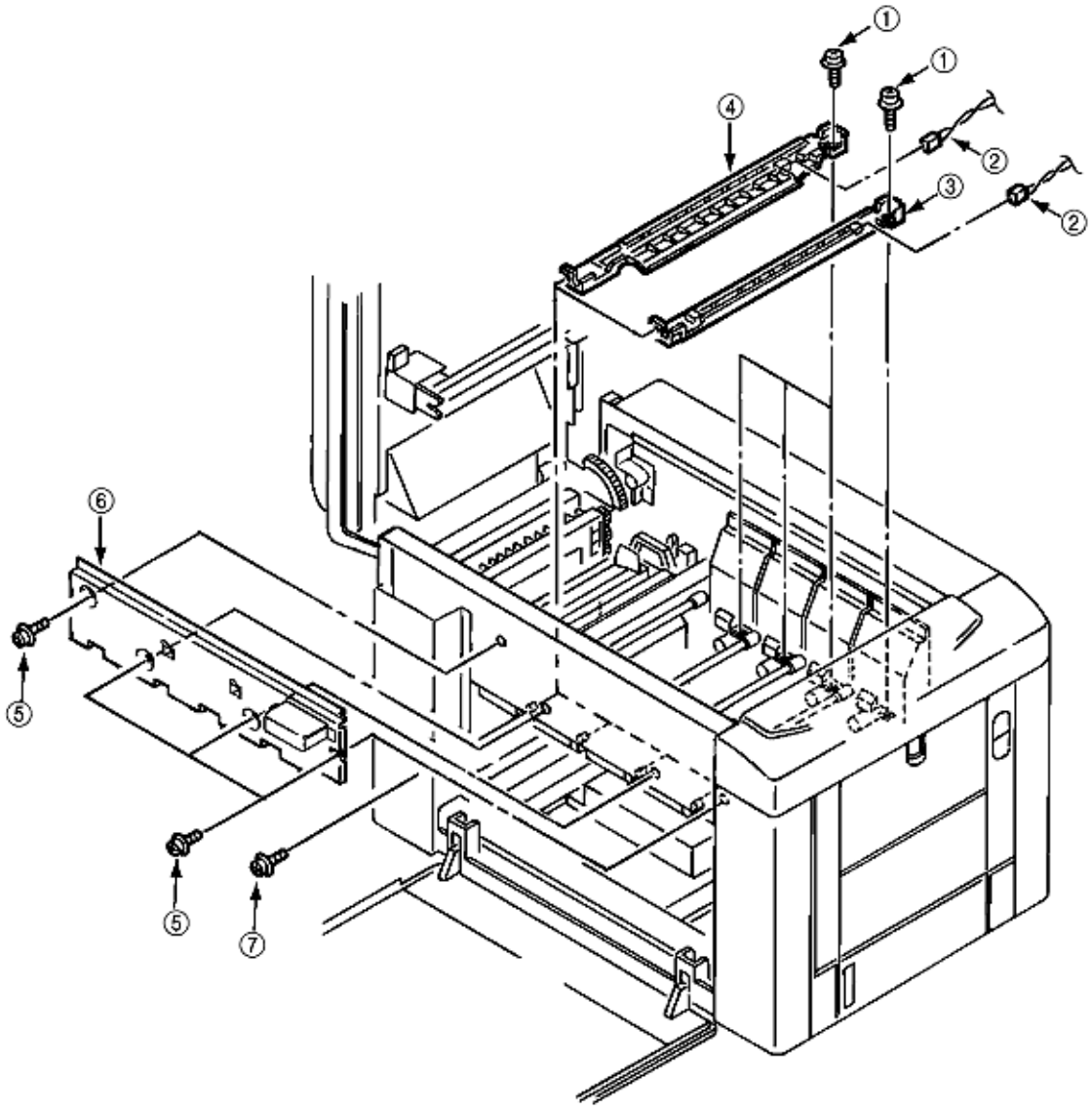

Figure 3.3.34 Eraser Bracket Assy, Eraser Bracket (KCM) Assy

(2)	**40172710**	**Cord - Wire - AMP8P-AMP2PX4**	**RSPL**	**8-4, #20**
(3)	**40308501**	**Eraser - Bkt - Assy**	**RSPL**	**8-4, #8**
(4)	**40324301**	**Eraser - Bkt - (KCM) - Assy**	**RSPL**	**8-4, #9**

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3.3.35 Shaft Link

1. Remove the eraser bracket assy. (See 3.3.34)
2. Remove the gear one-way (Z30). (See 3.3.14.)
3. Remove the E-ring (3) by sliding the sensor assy T (KCM) (1) and bracket sensor T (KCM) (2) together in the arrow (A) direction.
4. Release the engagement between the lever Up/Dn and boss A of the lever link (R) (5) by sliding the spring support (R) (4), lever link (R) (5) and the bearing (6) together in the arrow (B) direction. **(Keep on sliding until the lever link (R) (5) reaches the end of D-cut part of the shaft link (7).)**
5. Draw out the entire shaft link (7) by pressing it in the arrow (C) direction and turning its left side under the contact (BL L) assy.
6. Detach the sensor assy T (KCM) (1), bracket sensor T (KCM) (2), spring support (R) (4), lever link (R) (5) and the bearing (6) from the shaft link (7).
7. Remove 2 E-rings (8) then remove the spring support (L) (9) and lever link (L) (10).

[Notice for mounting]

- Engagement between the lever Up/Dn and boss A of the lever link (R) (5): Mount the spring support (L (9) and lever link (L (10) in the predetermined positions, then clamp the boss A of lever link (R) (5) with the lever Up/Dn by adding rotating power on the spring support (L) (9) by rotating the shaft link (7).

- Mounting of the spring support (R) (4): Clamp the spring support (R) (4) at the predetermined positions in the lever link (R) (5) and the contact BKT (R).

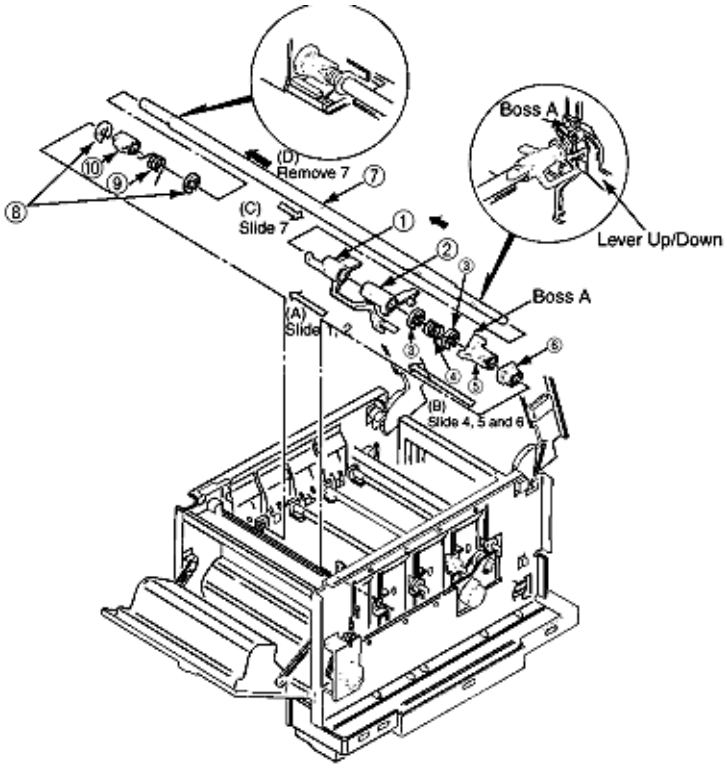

Figure 3.3.35 Shaft Link

(3)	**50705301**	**RE6-SUS Ring: "E"**	**RSPL**	**8-4, #13**
(1)	**40449501**	**Sensor - Assy - T - (KCM)**	**RSPL**	**8-4, #19**
(2)	**40136201**	**Bracket - Sensor - Toner - (KCM)**	**RSPL**	**8-4, #16**
(5)	**40132301**	**Lever - Link - (R)**	**RSPL**	**8-4, #11**
(4)	**40168401**	**Spring - Support (R)**	**RSPL**	**8-4, #14**

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3.3.36 Contact Bracket (BL-R) Assy, Contact Bracket (CL-R) Assy

1. Remove the gear one-way (Z30). (See 3.3.14)
2. Remove the motor assy BT. (See 3.3.15)
3. Remove the high voltage power supply unit. (See 3.3.33)
4. Remove the shaft link. (See 3.3.35)

[Removal of the contact (BL-R) Assy]

5. Unscrew 2 screws (1) and unplug the cable (2), then rmeove the contact (BL-R) assy (3).

[Removal of the contact (CL-R) Assy]

6. Unscrew 2 screws (4) then remove the contact (CL-R) Assy (5).

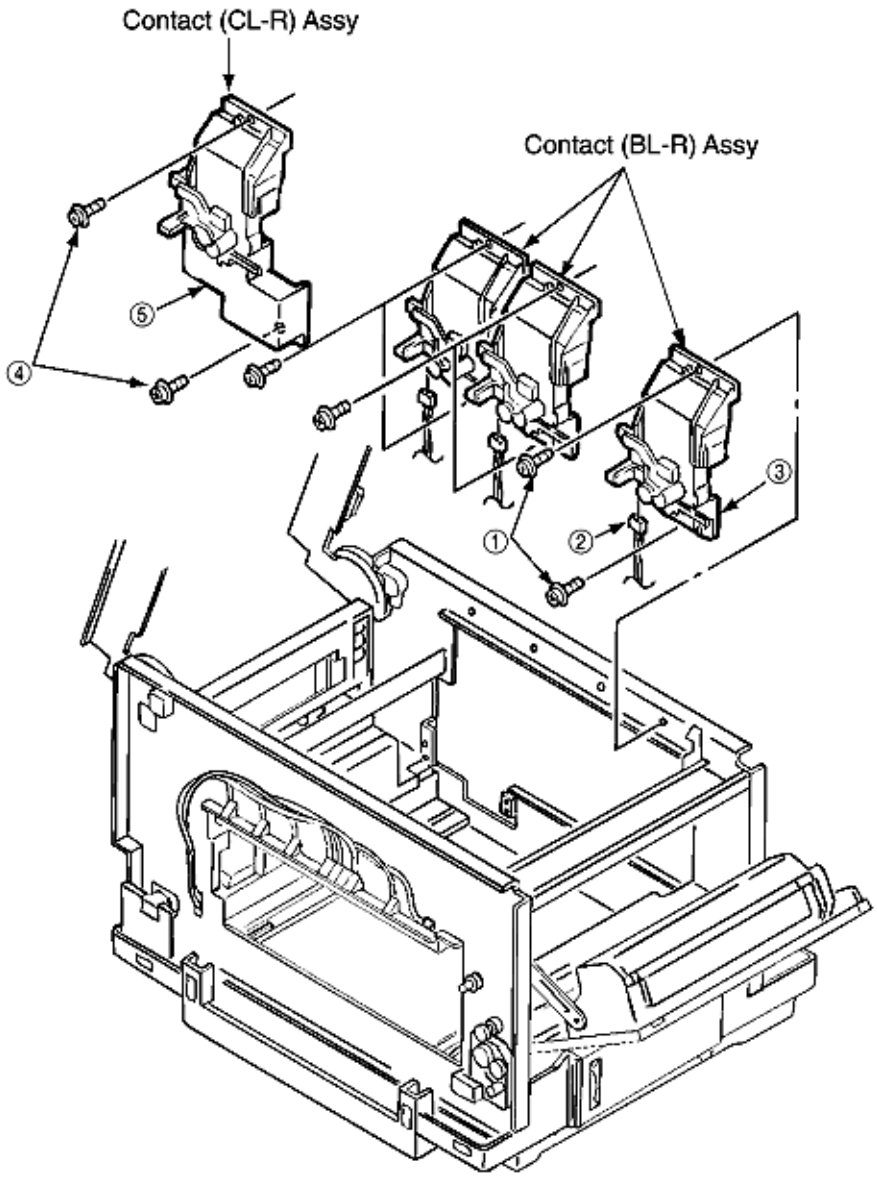

Figure 3.3.36 Contact Bracket (BL-R) Assy, Contact Bracket (CL-R) Assy

(2)	**40173301**	**Cord - Wire - : Amp 14p-1MPX43**	**RSPL**	**8-4, #18**
(5)	**40309001**	**Contact - BK - T (CL-R) Assy**	**RSPL**	**8-4, #7**
	Includes:			
	40135301	**Photo Interrupter**	**RSPL**	**8-4, #6**

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3.3.37 Contact (BL-L) Assy, Contact (CL-L) Assy

1. Remove the shaft link. (See 3.3.35)

[Removal of the contact (BL-L) assy]

2. Unscrew 2 screws (1) then remove the contact (BL-L) Assy (2).

[Removal of the contact (CL-L) assy]

3. Unscrew 2 screws 93) then remove the contact (CL-L) assy (4).

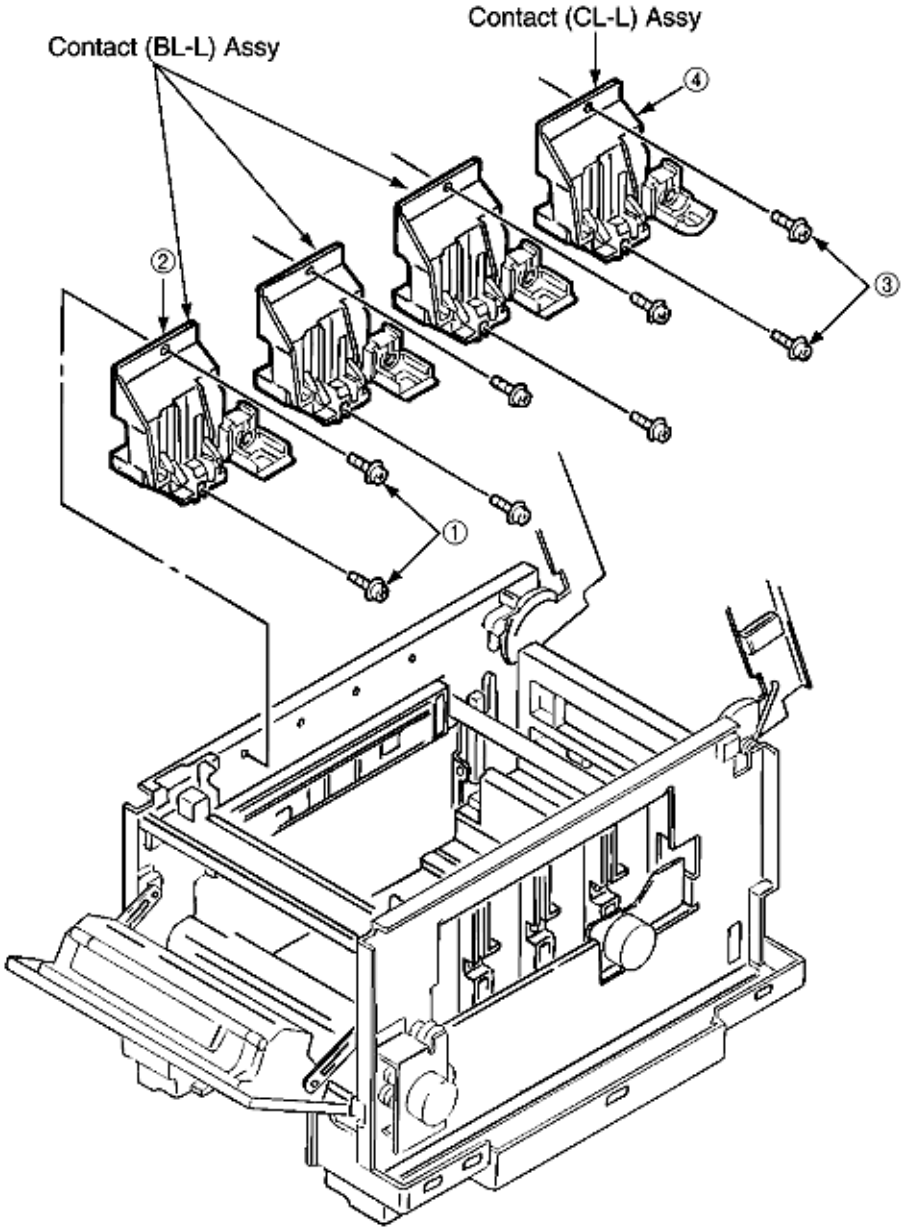

Figure 3.3.37 Contact (BL-L) Assy, Contact (CL-L) Assy

(2)	40324501	Contact - (BL-L) Assy	RSPL	8-4, #1
	Includes:			
(A)	40278101	Plate - Earth (LK)	RSPL	8-4, #2
(A)	51608901	PP4076-5308P001 Bearing: F	RSPL	8-4, #3
(4)	40324401	Contact (CL-L) Assy		8-4, #4
	Includes:	(A) Both Parts		

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3.3.38 Contact SB Assy

1. Remove the contact (BL-L) assy and contact (CL-L) assy. (See 3.3.37)
2. Unscrew 3 screws (1) then remove the plate blind (2).
3. Unplug 7 codes (3).
4. Unscrew 3 screws (4) then remove the contact SB assy (5).

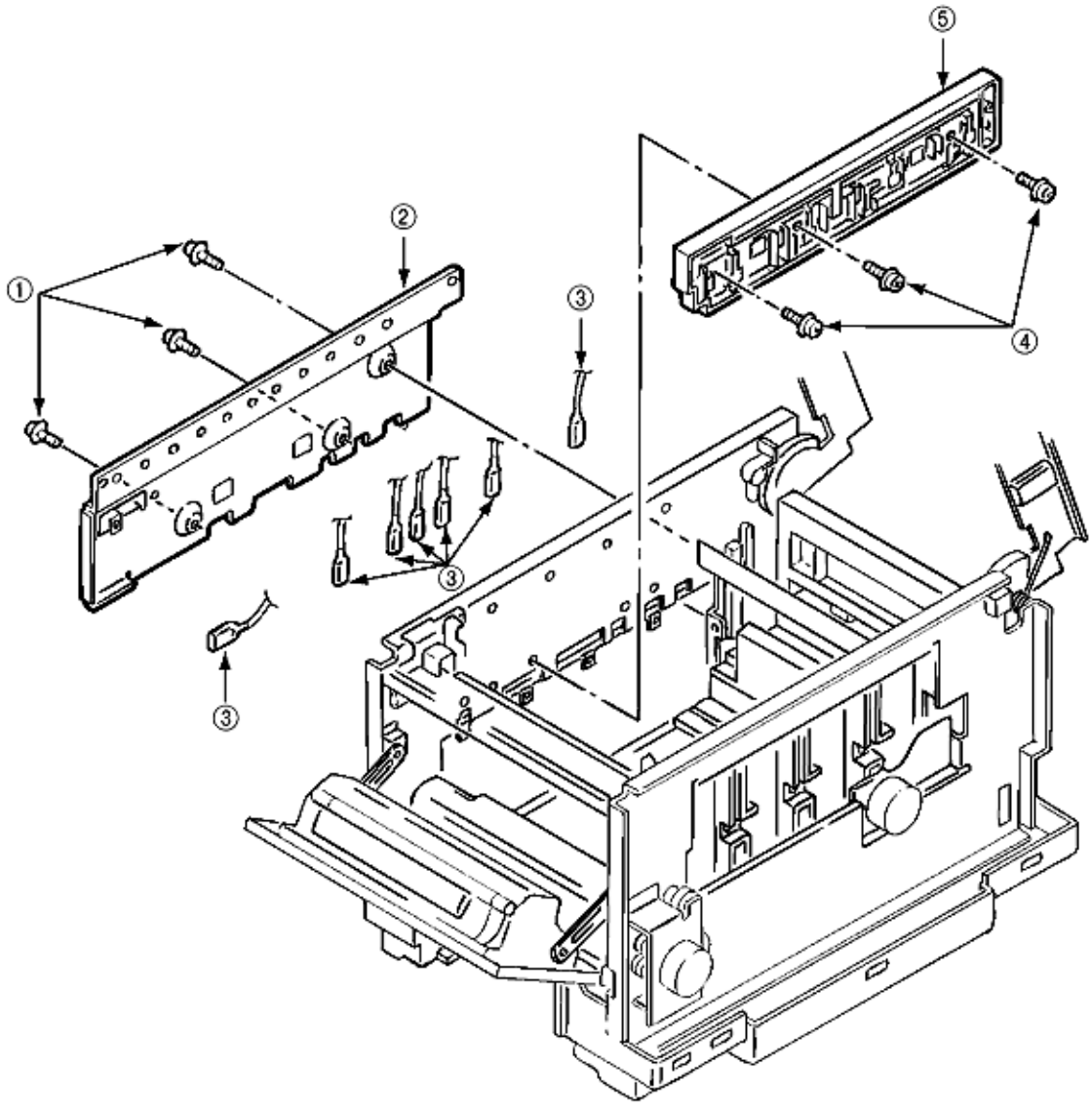

Figure 3.3.38 Contact SB Assy

(2)	**40290201**	**Plate - Blind**	**RSPL**	**8-3, #9**
(5)	**40308801**	**Contact - SB - Assy**	**RSPL**	**8-3, #8**

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3.3.39 PXC PCB

1. Remove the contact (BL-R) assy and contact (CL-R) assy. (See 3.3.36)
2. Remove the contact (BL-L) assy and contact (CL-L) assy. (See 3.3.37)
3. Remove the hopping motor. (See 3.3.19)
4. Remove the motor assy BT. (See 3.3.15)
5. Remove the gear heat assy. (See 3.3.12)
6. Remove the roller assy hopping. (See 3.3.25)
7. Remove the holder gear toner assy. (See 3.3.30)
8. Remove the high voltage power supply unit. (See 3.3.33)
9. Unplug the inlet AC. (See 3.3.16)
10. Unscrew 9 screws (1) then remove the guide cassettes (L) (2) and (R) (3) together.
11. Unscrew the screw (4) then remove the switch (5).
12. Unscrew the screw (6) then remove the PXC PCB (7).

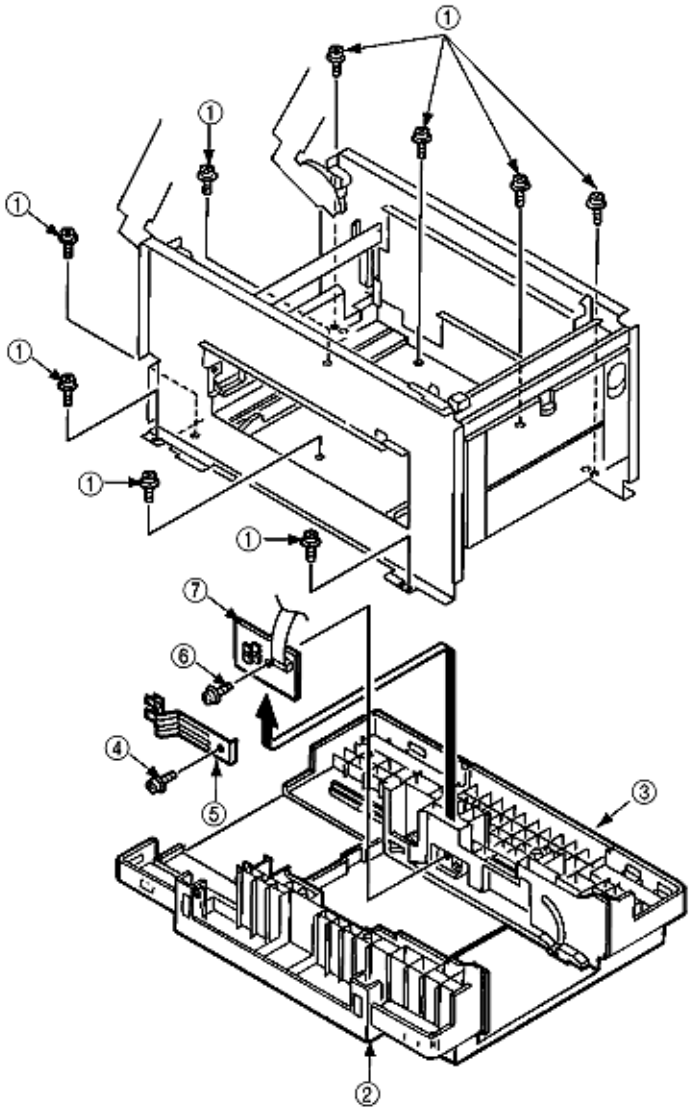

Figure 3.3.39 PXC PCB

(2)	**40302101**	**Guide - Cassette - (L) - Assy**	**RSPL**	**8-3, #60 ***
(3)	**40302901**	**Guide - Cassette - (R) - Assy**	**RSPL**	**8-3, #61*; 8-7, #1**
(5)	**50928901**	**4PP4076-5306P001 Spring: Detector**	**RSPL**	**8-7, #2**
(7)	**40368301**	**PXC - PCB**	**RSPL**	**8-7, #5**

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3.3.40 Heat Unit Assy (Fuser unit and oil roller)

1. Open the stacker cover.
2. Release the lock by turning down the lever lock heat guides (blue) on both sides, then lift the fuser unit assy (1) and remove it.

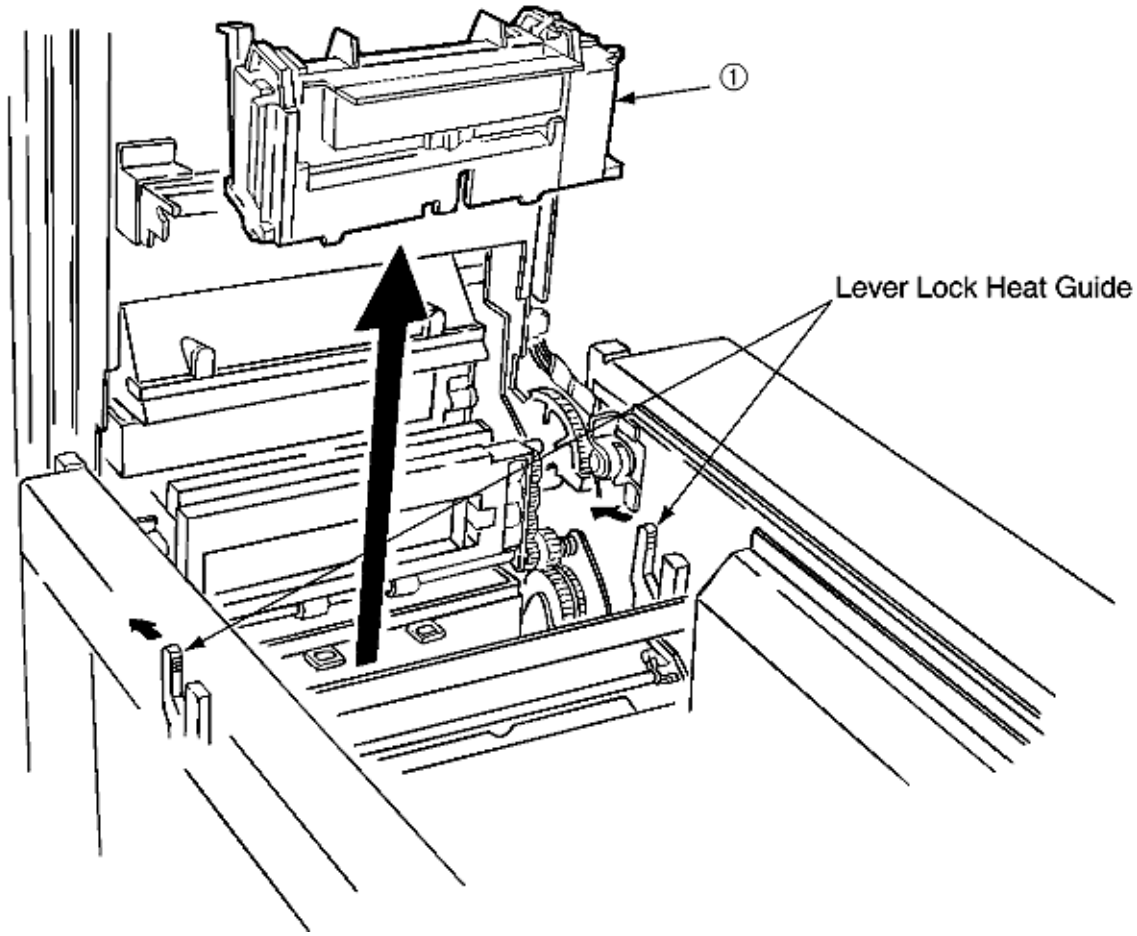

Figure 3.3.40 Heat Unit Assy

(1)	**40490901**	**Unit: Fuser 120V (OP8c)**	**RSPL**	**8-2, #21**
	40490904	**Unit: Fuser 220V (OP8c)**	**RSPL**	**8-2, #21**

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3.3.41 Oil Roller Kit

1. Remove the heat unit assy. (See 3.3.40)
2. Release the lock by turning down the lever in the arrow (A) direction, then slide the oil roller assy (1) with its right side lifted and remove it.

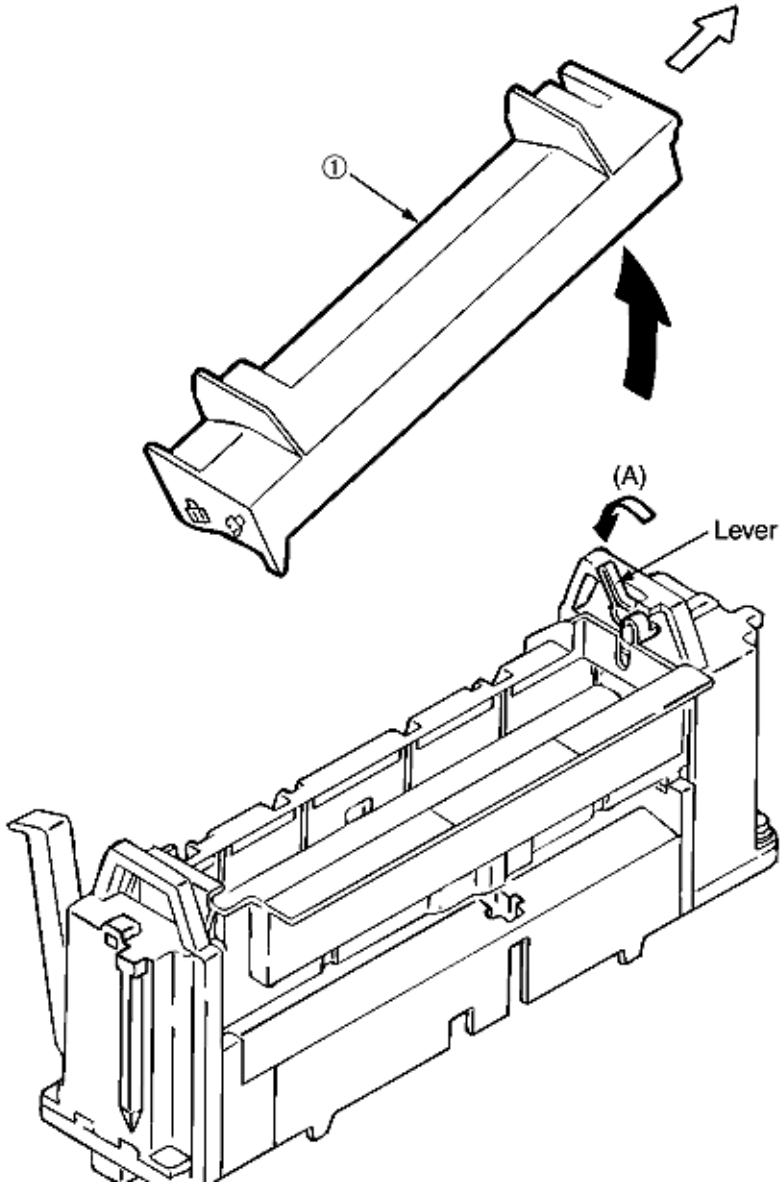

Figure 3.3.41 Oil Roller Kit

(1)	**40645301**	**Oil Roller Kit (Consumable)**		**8-2, #12**

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